PRICES-CURRENT (RETAIL) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 15TH JULY 1890.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

			WHEA	T.		BARLEY		Ric	E, BE	ST S	ORT.	Ric	e, comb	ion.		R OR C	
	DISTRICTS.	Present return.	Next preceding return.	Corresponding return of last year,	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding	return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year,
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13	Rungpore	13	5 13	5 14	8 .			9 (9	6	10 5	13 5	13 5	14 8			
14	Bogra	16 1	4 15	12 18	5 .			12 (12	0	10 14	17 4	17 4	14 4			
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16	Darjeeling	10	0 10	0 10	0 9	0 9 (10 0	5 (5	0	6 0	9 0	11 0	11 0			
17	Julpigoree	13	0 13	0 11	0 16	0 16	16 0	8 (8	0	8 0		14 0				1
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1	Mymensingh	11	4 11	8 10	0 .			10	10	4	11 0	13 8	13 8	13 0	-		-

A In subdivisions retail prices of salt per rupes are:—Culna 10 seers, Cutwa 10 seers 6 chittacks, and Kanesgunge 10½ seers.

B At Rampore Haut retail price of salt 9½ seers per rupes.

C In subdivisions retail prices of salt per rupes are:—Contai 9½ seers, Tumlook 8 seers, and Ghatal 10½ seers.

D In subdivisions wholesale prices of salt per rupes are:—Serampore 18. 3-12 and Johanabad Rs. 3-14 per maund.

E In subdivisions retail prices of salt per rupes are:—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Barrackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

F In subdivisions retail prices of salt per rupes are:—Kooshtea 10 seers, Meherpore 9 seers, Chooadanga 10 seers, and Ranaghat 9 seers 2 chittacks.

At Satkhira retail prices of salt 9 seers 13 chittacks per rupes.

H In subdivisions retail prices of salt per rupes are:—Jhenida 9 seers, Magura 9 seers 12 chittacks, Narall 95 seers, and Bongong 10 seers.

In subdivisions retail prices of salt per rupes are:—Lalbagh 9 seers, Jungipore 10 seers, and Kandi 10 seers.

										the	15th	the 15th July, 1890.	/, 18	90.
SEERS OF 80 TOLAHS	AHS.						GRAM		ANA	#	MONTH.			
BAJRA OR CUMBU. (Pennisetum typho- ideum.)	Marua or Ragi.	on Ra	•	ITALIAN M (Setaria it		MILLET.	- 0	OR SUNAGA. Cicer arietinum.	KADALAY UNAGA. prietinum.)	1831	Cox	COMMON MASON, CARPENTER, OR	SON,	
			1		3*	9-		0+	0-		Bı	ACKSMI	PH.	
Present return. Next preceding return. Corresponding return of last year.	Present return.		onding re- of last year.	return.	preceding re	onding re f last year.	return.	receding re	nding re		urn.	ding return.	ding return	DISTRICTS
s Ch. S. Ch. S. Ch.		tu	turn o	Present	Next turn.		Present	Next p	Correspo turn of	Correspondi	Present ret	Next preced	Cerrespone of last y	
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Dacca,

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Furreedpore

Eastern Districts.

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PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

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Nomoer.	DISTRICTS.		Present return.		Next preceding	ë.	COUNTY PORTS	Corresponding return		Descont return.		Next preceding	return.	Corresponding return	of last year.	Descent return	The state of the s	Next preceding	return.	Corresponding return	of last year,		Present return.	Next preceding	return.	Corresponding return	of last year.	Present return.	Next preceding return.	Corresponding return of last year.
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8	Noakholly*		•••										100					13	8	12	0			14	0	14	0		-	-
4	Tipperah	1	3	141	1	3	5	12	0		**		V			10	0	10	0	13	0	13	141	13	5	14	0			
5	Chittagong Hill Tracts. Hill Tipperah	0.15	6	0		6	0		. 0			1				10	10)	11	6	9 8		11 15	64		5	10 13	0		-	-
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8	Shahabad		16	0		15	0	10	8	20	0	20	0	18	4	9	0	8	0	8	8	14	0	14	0	12	8	Mut 16 0	18 0	
9	Durbhunga		15	,6	-	15	6	1	3 4	20	14	21	0	17	4	13	0	13	3	9	2	15	6	15	6	12	8	-		
30	Mozufferpore		17	0	1	17	8	1	3 0	22	0	20	0	16	0	9	0	9	0	9	0	14	0	15	0	12	8			
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33	Monghyr		18	6		18	14	16	12	22	0	23	1	17	4	12		11	R.R.S.I	10	ler tit A	F-50-57	251201	15 Old		12	1	,	16 12	
34	Bhagulpore		17	11		17	11	15	12	21	7	22	11	17	2007	10			15		6	13	14	Old 13 Ne 17	14 w.	12		}	-	-
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36	Maldah		18	8		18	0	15	0				•			12	0	10	0	10	0	14	0	14	0	12	8			
87	Sonthal Perghs. ORISSA,	١,	14	0	1 ;	14	0	12	8		1				100	13	0	13	0	12	8	16	0	16	0	14	8		۱	
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39	Pooree		10	8		10	8	1	5				•			13	2	13	2	11	13	17	1;	21	0	14	7		-	
10	CHOTA NAG	PO	RE			15	0	16	0	13	0	13	0	13	0	11	0	11	0	13	0	16	0	16	0	17	0			1.
11	South-West Frontie	150	89	0	13	14	8	12	0	18	0	18	0	12	0	9	0	9	0	8	0	16	01	16	0	141	0	1		1
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42	Lohardugga	11	8	0	I	8 Red 14	0	10	. 0	16						14	0		•	12	10	16		16 Co	o ars	0.	0			
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CALCUTTA, The 22nd July, 1890.

^{*} Present return not received.
† Price of common rice at Jajpore 19 seers 11 chittacks and at Kendrapara 18 seers 6 chittacks per rupee.
† Rise in price attributed to less importation owing to heavy rain.

At Cox's Bazar wholesale price of salt Rs. 5 per maund.

In subdivisions retail prices of salt per rupee are:—Buxar 10 seers, Sasseram 10½ seers, and Bhabuah 9½ seers.

U In subdivisions retail prices of salt per rupee are:—Madhabani 10 seers and Samastipore 10½ seers.

V In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Sitamarhi 10 seers.

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Station Bazars of the Districts of Bengal on the 15th July, 1890-(concluded).

			WI	HOL ER I	ESAL MAUN SEE	VD (RICE OF 40	S		, V	AVERA	GE V	VAGES	PER A	MONTI	I.		
	SALT.				SALT				Ag	RICULT LABOUI	URAL	Syc	E OR	Horse-	CAR	MON M.	, OR	
Present return.	Next preceding return.	Corresponding return of last year.	Present return.		Next preceding	revuru.	Corresponding return		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS.
S. Ch.	S. Ch.	.9. Ch	Rs. A	p.[]	Rs .a.	P., F	ta. A.	r.[]	Rs. A.	Rs. A.	Rs. A.	Rs.	Rs. A	Rs. A.	Rs. 4.	Rs. A	astern I	Districts—concluded.
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		To the						1									СНОТ	A NAGPORE.
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divisions retail prices of state price of salt 103 source.

Khoorda subdivision retail price of salt 8 seers per rupee, adruck retail price of salt 8 seers per rupee.

Vindpore retail price of salt 9 seers per rupee.

Published for general information.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Sal

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Cuttack	Pooree	Balasore	Patna	Chittagong	Naraingunge	Dacca	Serajgunge	Calcutta		MARTS	
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			-	3 500		0	(F.155.16)		No.		н.
		60	-			10		64	77.	1.2	BARLEY
		0	10	1	1	7	- 1	00	*	Next preceding return.	XBT
		•	co			0	100	Н	7		
		co	100			-		10	7.	Corresponding return	X 3 3
	1	0	10		1	00	1	co		of last year.	
		0	_ 6_			0		Ç0	7	Court Street	28 20 3
60		Co	co	co	00	co	4	4	77	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
10	1.5	00	12	44	0	0	00	co		Present return.	
•		0	0	0	0	0	0	10	*	a brigging the street of	Ricz,
co		60	to	co	co	co	4	*	B.		#, 10
10	1	00	12	4	10	4	==	01		Next preceding return.	EST
0		0	0	0	0	0	0	to			BEST SORT.
. 60		60	co	*	co	co	4	4	27		ā
10		0	14	0	0	0	0	6		Corresponding return of last year.	
_ 0		0	0	0	0	0	0	100	*	of last year.	
10	10	10	10	. 10	10	10	10	12			
	4	6	6	10	14	13	12	18		Present return.	
0	0	0	0	0	0	0	0	1			1
			5 3 7 1	a 10,000				10 to 10	38.54		Rice, common.
10	-	12	10	10	12	co	2 1	2 1	*	V	E .
10	14	6	Ct	00	14	0	12	18	9	Next preceding return.	MO
0	0	0	ಿ	0	0	0	0	10	Ä		NON
63	10	10	to	co	10	10	10	13	77	0. 1	
0	6	01	15	00	12	12	10	14	•	Corresponding return of last year.	
•	0	0	0	0	0	0	0	0			

CALCUTTA, The 22nd July, 1890.

1	1	4	1	1 12	1	1	1	1	1 14 1	RAP	Present return.	JOWAR OF	
1		1	i	01 13 0	1	1	1	1	11 15 6	R. A. P.	Next preceding return.		
	1	ı	,	2 1 8	1	1	1			R. A.P.	Corresponding return of last year.	CHOLUM. Vulgare.)	P
	1	e	1	1	i	1	1	1	2 14 0	R.A.P.	Present return.	Валка (Реппі	PRICES
17	1		1				ı	i	2 15 2	R.A.P.	Next preceding return.	on setus	PER 1
15664	1	i		- 1		1 -	1		10	R.A	Corresponding return of last year.	CUMBU n typho n.)	MAUN

		i	180		i	i	i	1	R. A. P.	Present return.	MARUA (Eleusine	OF 40 SEERS
		ı	180		1	1	1		R. A.P.	Next preceding return.		SEDRS
•	1	ī	- 1	1	1		1	1	R. A.P.	Corresponding return of last year.	or Ragi.	
•	1	1	2 1 0	1	ı	1	i	4 0 10	RAR	Present return,	KANGN TTALI (Seta	
:	1		2 1 8	1	i		ı	3 15 0	R. A.P.	Next preceding return,	ANGNI OR KAKUN TALIAN MILLET. (Setarta italica.)	
	-1		3 9 0	1		i		2 0 0	R. A.F	Corresponding return of last year,	LET. Hoa.)	

in the undermentioned Marts of Bengal on the 15th July, 1890.

	AT	IAC	LA3	AN Y O	R S	Su	NAC	A.	•		INI				t or		[A]	ZR.	-		M	C	AD.	IAN	P	HUI EA.						Fin	EWO	000				1			S	AL	т.				
Present return.				Next preceding return.			Corresponding return	of last year.			Fresent return.			Nort proceding softwar			Corresponding return	of last year.			Present return.			Next preceding return.			Corresponding return	or many from:		Present return.			Next preceding return.		, i	of last year.			Present return.			Next preceding return.			of last year.		MARTS.
R	Δ	Р.	R		, P	1	R.	۸.	P.	R		. Р	1		. P		R,	A . 1	P.	h.	٨.	P.	R		Ρ.	R		. Р	R		P.	R	٨.	P.	R.	۸.	P.	R.	۸.	r.	R	. A	. Р.	R.	۸.	P.	
2 1	1	3	2	0	1	1	2	6	8	1	14	•	,	1		1				2	1	7	2	3	2	2	2	11	0	5	9	0	5	9	0	5	6	3	9	4	3	9	6	3	8	0	Calcutta.
2 8	8	0	2	8		0	2	9	0						•				1					•••							HER I							3	12	0	3	12	0	3	14	0	Serajgunge.
3 (0	0	2	12		0	2 1	12	0	1									4	3	0	0	8	0	C	2	6	0	0	4	0	0	4	0	0	4	0	4	2	0	4	0	0	3	15	0	Dacca.
4 (0	6	3	8		0	2	8	0	188								•		3	12	0	3	12	•	3	12	0	0	8	0	0	8	0	0	10	0	3	18	0	3	12	0	3	12	0	Naraingung
3 (4	0	3	2		0	3	6	0	100000			S						1										0	5	4	0	5	4	0	7	0	8	14	0	3	14	0	3	14	0	Chittagong.
1 18	3	0	1	13		0	1 1	15	0	The same				1.5			2	2	6	1	11	6	1	10	3	1	14	6	0	5	6	0	5	6	0	5	0	3	13	0	3	13	0	3	13	0	Patna.
2 12	2	0	2	12		0	2 1	2	0	78755									1						1				0	4	6	0	4	6	0	4	6	3	14	0	3	14	0	4	0	0	Balasore.
																						0 18									STATE OF			1				3	7	0	3	8	0	3	12	0	Pooree.
2 10	0	0	2	10		0,	2	0	D							1				1	11	0	2	2	U	3	0	0	0	8	0	U	8	U	0	8	0	4	7	0	4	7	0	4	7	0	Cuttack,

Published for general information.

P. NOLAN, Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

			74.9	17/11				The state of	8	TATIC	ON OBS	ERV	TION	· .	Define I	SAL		25
			AIR	PRESSU	RE.	WIN	D.					TEM	PERAT	TURE.	DHILL		10	- 184 - Str.
DISTRICT.	Repress	entative ion,	Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direc- tion.	Mean wind ve- locity.	Highest during week.		Date.	Lowest during week.		Date.	Mean maximum temperature.	Mean minimum lemperature of week.	Mean daily tem- perature of weak.	Variation from normal mean of week.	Mean, 8 A.M.,
Pooree	Pooree	ore	29°591+ 29°579	29:603† 29:601	+*047	sw ssw	336'+ 357'	90°7 89°2	15th 18th	July	78°8	16th 12th	July	89 1 87 3	81°3 80°5	85°2 83°9	+1'8	81
Pooree	O'S STANDARD TO THE RESERVE OF THE PERSON OF	Point	29.578	29.600	-'002	wsw	294.9	92.9	18th		77'6	12th 8	July July	87 8	78.9	83:4	+0.4	82
Outtack	Cuttac	k	29.519	29.600	015	wsw	77.9	93'4	17th		77'3	12th		91.2	79'9	85.2	-1.0	83
Balasore	Balaso	re	29.527	20.286	+ 001	sw	174:5	91.4	14th 8	July July	78.2	12th	"	89.6	80.3	85.0	+1.9	82
South-West Midnapo South 24-Pergunnahs	Baugo	Island	29.200	29 591	+*607	ssw	432'0	89*7	14th	"	79.0	12th	. "	87.9	81 2	84'6	+0.4	83
Midnapore	Midns	pore	29*485	29.584	+*001	8	183*2	94'3	17th		77.1	12th	,,	50.6	79.8	85 0	+1'9	83
Howrah	Calcut	ta .	29.563	29 585	+ '001	ssw	75'4	50.0	17th	-,	77 2	12th	,,	87:8	79 2	83'5	+0.1	831
Burdwan	Burdw	an	29'470	29.570	010	. 8	1141	93.6	17th		78'4	17th	,,	90 4	80 2	85'3	+0.2	82
Bankoora	Banko	ors	29*258	29'555	- 008	3810 & C	107.0	941	18th		77.1	17th	,,	91.2	78'9	85.3	+1'2	82
	Ranee	gunge	29:261	29.593	+*011	SSE	60:3	94.0	17th	,,	75:9	18th	,,	90:4	78'9	84'6	0	821
West Burdwan Moorshedabad	Berha	mpore	29.508	29.575	- 024	. 8	100'8	91.7	17th		74'3	18th	,,	89.0	77'8	83.1	-1'3	80
Nuddes	Charles .	aghur	29*584	29.282	001	ESE	125'3	91.8	17th		74'3	17th	.,,	89*3	77.6	83'5	-0.8	82"
	Jessor	0	29.560	29.593	'012	SSE	86'2	92.3	17th		76.4	17th		88.6	78 9	83.8	-0.6	82
Khoolna)		29.574	29*664	'603	SSE	144'3	86'1	12th		67'0	12th	July	86'1	74.7	80 4	-1.1	78
Chittagong Hil Trac								observ	vation	s not re	ceived.							
Chittagong Hil Trac Backergunge	Barris		29-605	28'617	+.000	Southerly	155 6	89.8	17th	July	70'8	12th	& 13th	86-8	78 2	82.5	+0'1	81
Noakholly	Nonk	0.03	29.609	29.658	+ 1005	SE	207'9	86.2	17th	- 10	74:8	14th	July ,,	81.7	76'4	80'6	+0.4	801
Purreedpore	Furre	edpore	29.578	19:613	004	S & SE	1571	88.5	17th	- 10	77'4	14th, 18th	17th &	86.6	78'5	82.6	~0.6	812
Dacca	Dacca		29.584	29.600	018	8	201'5	89'1	17th		75'2	12th	"	86.3	77 7	52 0	+27	81
Commillah	Comm	illab .	20.002	291633	'00s	SE	190.2	83.4	17th		75'3	18th	& 16th July	86.0	76'0	81.0	-1.8	80
Mymensingh	Myme	nsingh	29'547	291605	1027	SSE,	125.2	86.7	17th		77 0	181	17th &	85.43	77.6	81.4	-20	79
Bogra	Bogra	100	29.513	29*575	- '018	ESE	89.8	92'8	17th	.,	77'1	12th	**	8816	78-2	83'4	-07	81"
Pubna	Serajg	unge	29'546	29.293	049	South- ensterly	71'41	891	17th	***	76.7	0.591	& 18th July	87.2	78.0	82'6	-1'3	811
Rajshahye	lenh.	re Beau	on the m	29.582	004	bouth- basterly SE	130'0	91'8	17ti	15th & a July	74.6	17th 18th	"	90.3	78 0	82.9	-1.0	817
Maldah	Maida		29.457	29.570	'050	SE	86'9	901	13th		791	A 300	% 18th	88'0	78-2	84'1	-0.9	813
Dinagepore	Dinag		29:478	29:603	-:031	Variable	70'9	89'3	1000	& 14th	77.7	120735	15th &	87:7	78'4	83'1	-1.5	811
Rungpore	Rung			29-592	-:061		42.0	8914	14th	July	75:1		July	86'7	75'9	81.2	-1:6	791
Cooch Behar	J Julpu	orae	33×1303									1000	July	1000			0000	
Darjeeling Hill Track	Darje	ling .	22.830	N.T.	-1072	Variable	92.8	67:1	16th	- 11	55 6	14th		65*2	67.2	61.2	-12	60'4
	} Purne	ab	29'441	29:567	- '032	North- easterly	71'2	90.4	lath		75.4	18th		87.8	77.0	82.4	- M.2	864
Mozufferpore	Mozui	ferpore'	29°356	201036	1	Variable	186'8*	80.3	16th	**	76'2	18th		87'5	79.1	88.3		505
Durbhungs	Durbi	unga	29'383	29 550	- '042	Ensterly	157'9	89.0	leth	31	75'8	18th	1900	87.8	77:5	82'6	-2.2	81.3
Chumparun	Motih	ari		29.228	- 1621	ESE	260.4	92'2	16th	***	75'9	1000	& 18th July	88 8	77.6	83.2	-1.9	50.7
Sarun	Chup		919.35200	29.547	-1022	South-	66.3	90'3	18th	"	74.6	18th	**	88'8	77*4	82.9	-2.3	813
Shahabad	E Buxsi		99:387	29°539 29°532	036 039 030	Variable Calm	1.46	80°0 92°4	16th 16th 16th	::	16'7 74'6	1sth 1sth	:	88'4 87'5 89'2	79°5 78°3 78°2	81'0 82'0 83'7	-1.8 -1.5	813 813
Gya	Gya		v0:160	29'546	-1028	E	1041	91'9	16th		78'8	17th		88'8	80'3	84'5	-1.0	83%
Patna	Banki		29:355	29.238	- 047	EAW	125'1	1/2 4	16th		75'2	13th	& 18th	88 4	78'4	83.4	-23	813
South Bhagulpore	3 Rhage	ipore	39.382	29.543	-'031	Calm	21.9	91'2	16th	"	76'0	18ch	July	88'3	78.1	83'2	-16	S1 6
Mongbyr Sontha! Pergunnaha			90*067	29'562	'018		103.4	90.1	15th		73'7	17th		58.2		82'6	-1.0	513
Hazariongh	Doon	ribagh		29 574	- '015	S,-ely South-	187'9	85.8	16th		72.2	12th	*	85.0	77.0	79'4	0	777
Loharougga			97:401	29 572		we-terly	148.6	86.0	15th		71:4	12th		84'2		130	+0.8	761
Mantihoom	J Kabe				-;e11	Variable			100						72.8	78'5		
Singhboom	Chyel		8	29*574	+1007	sw -	61.8	92.9	17th		76.7	12th	"	90.6	78-1	84'4	+1'4	801
	Sibsa		90.464	29'634	-1038	sw		92.6	lith	200	75.0	18th	"	89.6	77'4	83.2	-20	791
Assam	Dhub	TO SECTION A	-D*8.10	29.655	-1026	SW	88.0	80.2	17th	Table.	75'8	16th	**	84'9	77'1		-1.8	791
	Silcha		20 049	an 000	000	Calm	34'6	91.9	14th		76'2	Fath		88.8	76'8	82.0	100000	8

* Means of 5 days.

Aleans of 5 days.

Aleans of 6 days.

The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the had the humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number the numerical means or average of the reinfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the particular in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundred that of an inch fell.

or the week ending Friday, the 18th of July 1890.

		PE V			Value Market		dien	DISTR	ICT OB	SERVATIO	NS.	Actives		V-5	
	Ħ,	1	Soldie						RAI	NFALL.				Tanga Si	
	id amount ir week.	week	OF	WBRK.	Sine	ce 1st	of mor	th.	Sin	ce 15th May	1890.	ays.	amber lays.	Representative	District,
at 8 A.M.	Average cloud at 8 A.M. for	Rainfull of week observing station.	Mean for district.	Normal mean.	Mean for district.	Normal	mean.	Variation.	Wean for district,	Normal mean.	Variation.	Average number of rainy days.	Normal number of rainy days.		and and a
87 80	8°0 4°6	0:40 0:39	1.36	8:24	10:36		6.99	+3:37	22.07	17:12	+4'95	2.9	4.2	Pooree Gopalpore False Point	Pooree
84	81	2.44	0.00	3.11	8.66-	1	7.26	+1.40	20.88	18-63	+2.25	3.0	4.0	Cuttack	Cuttack
77	2'9	0.22	0.68	3.65	4'09	1000111	7:38	-3.20	21'16	18.36	+2.80	2.0	4.0	Balasore	Balasore
	9.3	0.44	0.55	3.92	4*18		8.65	-4'47	21.07	20.68	+0.89	2.0	4'6	Saugor Island	South-West Midnapor South 24-Pergunnals
89	(Chica)						7'16	-3'24	24/37	18 60	+5.77	2.0	4.0	Midnapore	. Midnapero
81	2.9	Nil.	0.32	2.66	8'92		/10	-0 24	2407					0.1	24-Pergunnaha
86	91	0.15	0.38	2'47	4.05		6.28	-2.53	23'34	18.82	+4'52	2.9	4.6	Calcutta	Hooghly
83	7.0	2.00	2'48	1.84	6.62		5'33	+1.32	29.77	16.85	+12'92	2.7	8.9	Burdwan	Burdwan
84	67	1.90	1.53	2:42	5.80	in the	7.14	-1'34	24'48	19.25	+5.53	2'3	4.8	Bankoora	Bankoors
86	6.6	318	2'91	2.47	9'12		6.74	+2:38	28 12	18.81	+9'31	3.8	4'3	Raneegunge .	{ West Burdwan
93	8.6	3:60	3.19	2.08	7.28		6.48	+0.80	21.22	18.75	+2.82	4'3	3'8	Berhampore	Moorshedabad
86	7'9	4'63	2:90	1.66	6.64	1	5.83	+0*88	22 65	19.06	+8'59	8.6	3:8	Krishnaghur	Nuddea
91	91	98.0	1'45	2:37	5'80		6.11	-0.81	24 62	21.80	+2.82	5.1	414	Jessore	{ Jessore
	9:0	2.76	5'76	6.52	19:74		16.31	+3'43	49.54	51-28	-1.69	5'5	5.2	Chittagong	Chittagong
92		- 10	2.16	2.92		1	8.87			32.28	Company of the state of the sta		5'8	Demagiri	Chittagons Hill Trac
91	8.0	4'17	3.73	8-74	8.70		9.91	-1.12	31.12	83.03	-1.88	6.3	58	Barrisal	Backergunge
92	319	4.19	3-29	4'41	10.66		12.49	-1.83	38'46	44'56	-6.10	7.0	5.4	Noakholly	Noakholly
90	6.0	1.60	1'88	7.31	4'48		6.12	-1.67	17'10	28.05	-5.95	5.7	4'3	Furreedpore	Furreedpore
92	9.9	1.70	2.56	3.58	9.09	Jus	7.76	+1'83	30.82	25'04	+5'81	5',8	4.6	Dacca	Dacca
88	6.0	8.37	2.85	3.02	8'40	160	7.67	+0.83	29:29	28.26	+1'03	5.0	4.8	Commillah	Tipperah
95	9.0	6.77	4'27	2.40	9.12	100	7:31	+1.84	36.33	29.76	+6.57	4.8	3.8	Mymensingh Bogra	Bogra
88	6.3	1.97	1.97	2.45	4.43	1420	7.53	-3.10	25.15	25.03	+0.13	6.0	8.2	Serajgunge	Pubna
91	8.1	1,00	1.66	1.83	8'04		6.15	+0.80	30.72	51.06	+9'06	5.7	3'8	Rampore Beaul	eah Rajshabye
80	3.7	2 23	3'40	2'52	4.22	The second	7'62	-3'07	18*24	22.27	-4.03	50	4'4	Maldah	Maldah
89 91	97	2.07	4.38	2 13	8:03		7.28	+0.75	28.03	24 97	+3.06	4.2	4.0	Dinagepore	Dinagepore
80	4.4	2.08	2'95	2:15	5.93		8'49	-2 56	38'18	87.42	+0.76	6.0	3'1	Rungpore	Rungpore
97	817	16'33	7'41	3.23	19'00		12.69	+6 31	66.67	52'53	+14'14	6.0	5'4	Julpigoree	.{ Julpigoree Cooch Behar
	9.8	10 27	14.22	5'83	84-33	17. VIII	21.30	+13.03	71'16	56.36	+14.80	7'0	5.5	Darjeeling	Darjeeling Hill Trac
97	E SILLA		NEST	3.73	12.93			+4'78	31.85	22.08	+8:67	5'4	8.2	Purneah	Purneah North Bhagulpore
94	6.6	6.24	5*97	3.55			8'15						3.0	Mozufferpore	Moznifernova
95	7.4	10.12	4.62	2.09	9.02	123	6 97	+2.08	19:19	15.78	+5'41	5.3	2.4	Durbhunga	Durbhunga
90	7:7	694	7:11	1.24	10:59	ALLS FO	7'48	+3.75	26.29	16:22 / 17:52	+9'04	4'0	2.0	Motihari	Chumparun
90	8°6	5'11	2.65	1.05	10.19	60036	7:12	-1.22	17.77	14.67	+3.10	5'0	31	Chupra	Sarun
83	5'4	0.77											38		Shahabad
80	9°0 7°9	5°47 2°39	3107	2'03	6.69	4.5	6.02	+0.64	17.61	11.81	+5'70	314		Arrah)
82	6.6	1.74	1.89	2.15	9:97		6'28	+8.00	24'07	13:30	+10.77	4.0	3.1	Gya	Gya
91	10.0	4.71	3.14	1.88	6.12	EN G	6'51	-0'34	15.96	14.10	+1.77	4.2	8.3	Bankipore	Patna
01	9.3	4.65	4'38	1.77	6:06	100	5.03	+0.14	20.87	14'62	+6'25	4'6	3.1	Bhagulpore	Monchyr
86	3.7	5.22	4.65	2:38	8.01		7.01	+1 00	25*99	18.23	+7'46	4'5	4'2	Doomka .	Sonthal Pergunnahs
87	10.0	3.64	4'50	2:45	8 23	44.5	7'86	+0.87	20.87	16.99	+8'58	4'8	4.6	Hasaribagh	Hazaribagh
84	8.7	2.67	1.08 2.53	2.91 5.98	4°53 5°46		7:07 6:67	-2.21 -1.21	18*72 10*22	16:30 16:49	-9:58 +2:78	3.7	4.6		Loharduggs Manthoom
78	8.8	0.08	0.10	8:00	5.16		7:30	-2'14	17:20	18 19	-0.30	2.0	4.1		
93	0.6	4.68	WAR	N.C		901			2000			100	The state of	Sibsagar Dhubri	Assam
93	9.0	2.25	1			100			17.00		A STATE			Silchar	J
1	9.0	5.00	NO ST	11/4		1		100	100	S LUCA				4010	engineers (as a fig

The variations are negotive when the mean for the week is less than the corresponding normal mean, and positive when greaters of rainfall the normal means and positive when greaters of rainfall the normal means and positive when greaters of rainfall the normal means and positive when greaters of rainfall the normal means and positive when greaters of rainfall the normal means and positive when greaters of rainfall means of the district of the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisions.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of July 1890.

					R.	AINFALL	•			То	TAL				
Heteorological division,	District.	Station.	Saturday, 12t fi	Sundsy, 15th July.	Monday, 14th July.	Tuesday, 15th July.	Wednesday, 16th July.	Thursday, 17th July.	Friday, 18th July,	Number of rainy days.	Rainfall of week,	Total rainfall since 1st of month.	Average total rain- fall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
PRIOSA	Pooree	Pooree Khurdah Banpur False Point Gor Salpara Pipli		0-18	0°02 2°00 0°75	1'69	0.36	0.08		2 1 3 2	0°88 0°02 2°60 2°44	11°02 13°76 8°09 8°67	5.76 7.10 6.95 8.15 ? ?	22°15 29°81 15°03 21°28	15:28 18:71 14:97 19:57 19:57
	Outtack	Jagatsingpore Banki Cuttack Kendrapara Jajpore Dharmsala Salipore	0°83 0°22 0°44 1°00 0°83	0.05		0°25 0°18 0°15 	0°57 0°95 0°01 	0°25 0°35 0°03	0.12	3 3 4 5 2	1'07 1'28 1'18 0'43 0'65	7:82 9:83 10:46 6:92 6:77	6 20 7 40 7 71 7 71 7 784 7 754 7	19:50 24:38 25:92 15:25 21:31 21:97	14'95 18'90 22'02 18'12 19'95
	Balasore	Chandbali Bhuddruck Sorah Balasore Jellasore Raripodah	0.02	0.12	0.40		0.51	0.20	0°50 0°30 0°30	2 1 2 1 2 4	0°39 0°65 1°20 0°51 0°80 0°52	4'93 4'87 4'10 3'19 3'39 8'72	6.72 6.73 6.50 7.88 8.82 7.76	17'48 23'30 20'28 28'38 21'35 21'06	16'88 18'72 16'43 10'41 18'51 20'08
SOUTH-WEST BRNGAL.	Midnapore	Contai Saugor Island Tumlook Midnapore Ghattal Kukrahaty Garbetta	0°30 0°32	0.03	0.01	0°01 0°04 	0:41	0°35 0°34 0°22	0°15 0°03 0°09 0°08	3 2 1 1 4 2 3	0°19 0°44 0°30 0°04 0°72 0°43 0°42	3·12 6·68 3·80 3·15 4·81 2·97 2·79	8:30 9:25 6:04 7:14 8:29	23°13 22°06 25°56 25°96 21°67 15°08 18°69	19°90 21°77 17°70 17°86 20°24
	24-Pergunnaha	Diamond Har- bour Canning Town Alipore Jail Barrackpore Dum-Dum Barset Buseerhat	0°15 0°07 0°13		0.38	0.04	0°02 0°16 0°04 0°14		0.14	1 4 3 2 9 Nil 2	0°02 0°49 0°15 0°60 0°27 Nil 0°64	2*72 4*98 6*68 4*13 8*43 8*58 4*91	8*40 9 7:09 5*59 5*78 5:26 6/52	17 91 23 43 24 80 20 43 19 87 20 77 25 31	20°39 19°89 18°37 18°56 17°85 21°43
	Howrah	Howrah Mohesreka (Ooloberiuh) Serampore Hooghly	0.01	0°01 0°03 0°04	0.01	0.02	0°24 0°02 0°03 0°15	0.02		4 5	0°31 0°20 0°87 1°15	5°27° 2°60 3°83 2°70	6 58 7 43 5 93 5 42	21.72 83.02 20.67 22.16	18:78 19:03 17:82
	Surdwan	Culna Eurdwan Cutwa Raneegunge	0.02	0.03 0.33 0.01		0.05		- 0.02 2.98 1.53 1.02 0.1	0°03 1°05 2°85	3 3 1 4 3 5	0·12 2·98 2·09 2·46 3·18	5'41 8'19 6'36 8'96	7-21 6-41 6-35 5-23 7-33	24·48 26·13 31·98 81·21 29·33	17:27 19:31 16:08 16:46 17:96 17:83
	Rankoora	Mankur Bankoora Bishenpore Maliara Khatra Indas Kotalpore Anda Gangajalghati Raipore Sonamukki	0°80 0°89 1°38 0°15		0°02 0°05 0°11	013	161	0°42 1°86 0°07 0°90 1°36 0°54	0°25 0°03 1°68 0°06 2°11 1°45	3 2 4 Nil 3 2 2 3 1 2	1'51 1'91 0'12 2'89 Nil 1'81 1'92 3'72 1'62 0'15 3'66	6°26 6°61 3'84 9'97 2'76 12'01 9'12 10'26 8'87 7'20 10'82	7 01 6 41 7 14 7 196 9 9	27 39 23 38 25 86 33 41 15 23 31 00 32 53 26 07 35 06 23 87	18:64 18:61 18:47 21:47 9 9
	Heerbhoom	Bh. Soory Hetampore Rampore Haut Bolpore Murarai	0.83	0.10	0.54		0.77	1°25 0°43 2°40 1°65 0°75	0°27 1°45 0 72 1°00 1°25	4 4 2 2 2 4	2:59 2:75 3:12 2:65 3:95	11.75 7.94 7.80 6.54 11.16	7-05 7-18 5-39 F	27'55 29'20 26'59 27'26 25'89 23'20	19°70 20°21 17°43
	Nuddea	Ranaghat Kishnaghur Chooadangs Meherpore Kooshtes	0°22 0°08 0°40 0°20	0.03 0.25 0.60	2'86		0.05	4'05 1'54 0'40 2'50 0'87	0.08	2 6 3 3 4	4'11 4'75 1'00 3'50 1'13	7'45 7'19 5'86 6'80 5'86	5°65 5°48 6°12 5°46 6°37	24'90 26'67 19'60 20'92 21'12	28°12 17'00 10'91 18'46 21'73
	Khooins	Satkhira Bagirhat Khoolna Nakipore Ramphal	0.05 0.41 0.65	0°03 0°42 0°86 0°53 1°56	0.01 0.32	0°40 0°10 0°42	0°10 0°15 	0°21 0°12 0°15	0°28 0°11 1°00 0°27	7 4 5 4 3	1.08 1.04 1.13 2.60 2.14	3°70 4°64 6°77 5°52 8°20	7:18 7:79 6:10 P	25.02 31.00 26.74 31.81 29.25	25 -25 25 -25 21 -82 21 -82
	Jessore	Narail Jessore Jhenidah Magoorah Bongong	0.48 0.06 0.35 0.05	0.20	0°16 0°08 0°12 0°02 0°39	0.04	0.20	0°35 1°89 0°42 2°12	0.02 0.06 0.08 0.09	5 7 3 6 4	1.21 0.96 2.36 0.63 3.21	4'37 4'48 8'60 4'65 5'19	4'96 5'82 5'58 5'81 5'68	25°66 26°43 29°86 20°85 20°85	19 09 22 04 21 87 21 71 19 07
C	Moorshedabad	Kandi Berhampore Lalbagh Azimgunge Jungipore Lalgola Jiagunge Akhrigunj Patkabari	2'40 1'20 0'24 1'12 0'15 0'05 0'40	1'69 0'18 0'40	0°10 0°90 0°90 0°61 0°67 0°11	0°23 0°15 0°18 0°50 0°17 0°09	0.03	0°45 1°00 1°98 6°19 0°07 0°14 1°46	0°52 1°04 2°11 0°77 0°66 0°30 0°65 0°22 2°30	4 6 5 4 5 2 5 6 4	5°15 3°60 5°38 2°16 2°04 0°80 1°78 2°10 4°20	7°35 8°42 9°20 6°89 4°98 9°82 6°17 9°70 8°10	7:11 6:39 5:99 5:81 6:28 7:31 P	21'47 16 72 21'69 24'92 17'96 26'69 22'99 25'53 22'60	19°22 18°77 17°52 18°65 18°01 20°34
BAST RENGAL	Chittagong	Cox's Bazar Chittagong Kutubdia Satkanya	1:80 0:38 2:50 0:40	1.03 0.45 0.95 0.50	0.37 0.33 0.13		0.40	0°60 0°52 0°48	4*20 0*54 0*50	6 5 5	8:73 2:79 2:11	18:50 20:58	22:14 10:48 P	59'89 39:14	61°95 40°47 †
	Chittagong Hill Tracts Backergunge	Rangamati Ruma Patuakhally Perozepore Burrisal Hnola	0°20 0°50 0°05 0°34 0°27	0°37 1°50 0°11 0°25 0°12	1.25 1.37 0.80 0.19	0°67 0°96 0°32 0°59	0.37 1.16	0.36	2'00 0'12 1'90 6'20	5 7 6 7	2°25 5'32 3'85 3'71 2'03	7-28 8-85 9-12 10-22 6-96	9°68 8°05 11°54 8°72 8°26 11°11	26°55 32°18 32°67 34°69 25°06	33°10 32°00 38°36 28°39 28°43 36°13

tatement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of July 1890 -contd.

				Mezing	R	LAINVAL	L.	all of the s		T	OTAL				
orological vision.	District.	Station.	Saturday, 12th July.	Sunday, 13th July,	Monday, 14th July,	Tuesday, 15th	Wednesday, 16th July.	Thursday, 17th July.	Friday, 18th	Number of rainy days.	Rainfall of week,	Total rainfall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1890.	Average rainfall from 15th May to date.
BENGAL meld.		Gournaddi Bauphal	0.45 0.49	0°70 0°08	0.20 1.08	0°36 0°54	0.13	0.10	0°08 1°04	7 5	2·32 3·23	6.12 8.00	9	21.05 27.52	1
	Noakholly	Noakholly Fanny Harishpore Ramganj	0°64 0°43 0°50 0°46	1°33 0°10	0.84 0.27 0.20 0.70	0°25 0°18 3°80 0°46	0.74 0.81 0.45	0.20	0.03 0.20 2.40	7 7 6	6'02	11.00 10.29 12.79	19:13 12:84 ?	35:08 41:80 57:64	40.18 40.18
	Furreedpore	Madaripore Furreedpore Goalundo	0°40 0°08 0°51	0.32	0.20 0.00 0.22	0.04	0.63 0.45 0.53	0°04 0°02 0°65	0.08	7 6 4	2'04 1'65 1'94	5°57 3°34 4°54	6:34 6:25 5:81	18'06 15'88 17'34	23 93 23 79 21 40
	Daces	Munshigunge Dacca Naraingunge Manickgunge Joydebpore	0:12 -0:76 1:02 0:26 0:64	0°40 0°16 0°59 0°19 0°06	0.50 0.57 0.48 0.10 0.43	0.08 0.08 	0.10	0°43 0°46 0°54 1°85 1°83	0.08 0.13 0.35 0.08	5 6 5 7	1.51 2.11 2.71 2.72 3.13	9°26 10°84 10°52 5°76 7°14	8°72 0°58 0°14 6'37	33'49 80'36 55'31 27'07 30'07	28 84 24 55 26 57 20 05
	Hill Tipperals Tipperah	Agartola Comilla Chandpore Brahmunberia Ramchandra-	0.37 0.30	0°10 1°00 	0°39 1°05 0°11	0.18	0.22 0.23 0.80 0.60	0.2 0.62 0.80	0:44 0:60 1:00	5 6 4 5	1'94 3 29 3'45 2'71	7'92 10'44 8'22 6'98	6°45 8°40 8°67 6°73	31°38 30°74 29°80 25°17	25°21 32°07 28°71 27°05
		Nasirnagar Vaudkandi Kasba Laksham	0.25	0.48	0.67 0.30 	0°17 0°25 0°25	0:18	0.28	0.67 3.90 	7 4 1 3	2.97 3.75 0.15 2.50	16:29 4:90 1:97	P P P	85:73 21:79 14:71 86:75	? ? ? ?
*	Mymensingh	Kishoregunke Atia (Tangail) Mymensingh Jamalpore Netrokona Subornakhally Durgapore	0°52 0°20 0°67 0°09 0°04 0°10	0°82 0°66 1°01 0°15	0°18 0°73 0°02 0°07	0°17 0°19	1'44 0'12 1'85	2:14 2:96 1:50 0:17 4:55 8:30	0.41 2.13 1.33	3 2 7 6 6	8:07 3:08 6:09 1:83 8:90	4 6.55 6.31 11.72 5.26 15.90	7'17 6'28 7'78 6'76 8'59	32:68 29:01 34:71 38:67 47:88	81°13 23 06 32 68 20 09 35 99
		Sherepore Town Dewangang	0:03	0.03	0.46	1.20	0.12	0.40 0.40	0.08	3 2 8	1:31 1:90 2:32	3·16 3·79 4·94	5°91	26°85 80°52 19°78	20-47
ORTH ENGAL.	Pubna Rogra	Sherepore Nowknilla Bogra	0°23 0°31 0°17 6°08	0°14 0°48 0°15 0°67	0.35 0.35 0.35 0.55	0°65 0°20	0°01 0°28 0°48	0°08	0°24	6 5 7 5	0'09 1'85 1'55 2'45	8'86 5'26 8'76 4 76	6°88 7°67 6°23 8°26	22°32 25°17 21°80 22°60	25°20 24°94 27°00
	Rajslahye	Panchbibi Beauleah Nattore Naogaon Lalpore Manda	0°50 0°14 0°18 2°50 0°15	0°10 1°65 0°40	+ 0°97 0°04 0°12 0°15	0.30	0.08 0.51 0.11	0°29 1°00 2°70 0°13 0°15	0°15 0°82 0°07 0°21	5 7 5 4	2.08 5.08 8.10 1.00 1.00	3'92 8'87 9'32 5'92 4'45 5'25	7.68 7.68 7.68 6.78	29'38 37'40 25'39 15'86 15'75	20°45 21°52 21°59 21°59
	Maldab	Maldah Chanchal Gajol Sibyanj	0°37 0°22 0°19 0°28	0.02 0.12 1.00 0.03	0.15 0.08 8.80	0.08 0.01 0.01		0.80	1'55 1'67 2'00 1'91	5 5 4 6	2:07 2:75 6:99 2:86	4°39 4°77 8°47 8°45	7:77 7:48 P	19:07 17:39 24:00 27:34	21/34 23/17
	ninagepore	Mohadebpore Churamon Raigunge Dinagepore Raloorghat Thakoorgaon	0°81° 0°62 0°78 0°24 0°08	0°81 0°81 0°04 2°29 0°19	3°18 0°79 0°91 1°82 1°38	2'80	0.31	1.18 0.30	1'52 1'15 0'27 0'49 1'63	3 4 5 5 6	2:38 6:48 5:85 2:33 4:84 5:41	6'44 8'73 10'63 6'94 7'43 9'07	6'54 7'44 7'07 8'01 7'34	23:37 29:22 30:39 80:03 87:17 41:59	23 11 22 42 25 21 20 41 24 61
	Rungpore	Bnawanigunge (Gyabanda) Rungpore Kurigram Bagdogra (Nilphamari).	0°28 0°12 	0.11	0°50 0°01 	0°47 0°12 1°45	0°11 0°40 0°40	0°05 0°05 2°70 0°84	0°41 1°44 0°54 0°88	6 7 4	1°82 2°25 5°09 2°64	4°14 4°92 6°44 8°20	6:48 10:53 7:97 8:68	32°49 32°97 41°04 46°20	2+90 87 81 39 87 43 64
	Julpigoree	Julpigoree Alipore Docar Fallacotta Debiganj	0.13 0.25 0.13 0.56	2'88 0'04 0'35 0'87	1.25 0.25 0.84 0.05	0°43 6°89 1°45 2°88 3°67	1'71 1'47 2'20 0'64	0.80 3.10 1.18 0.12	0'64 1'90 0'47 0'88 0'15	3 7 7 7 6	1°19 15°78 6°91 8°89 5°00	28°87 28°87 23°71 29 25 10°24	17:61 P P	78:04 82:37 75:15 49:88	53 67 9 9
	Cooch Behar.	Bhagatpore (Nagrakatta). Dinhasta Couch Behar. Mickilgunge. Matabhanga	0.58 0.09 0.75	0.85 1.93 0.57	0°71 0°18 0°65 0°43 0°81	0°41 0°06 1°10 1°48 3°71	2.66 0.05 4.23 2.00 1.67	1'02 0'29 0'58 0'84 0'04	3'34 6'11 0'45	7 5 5 7 6	9·27 0·69 6·94 6·67 6·95	30:71 3:69 18:79 19:01 24:61	8:39 12:96 11:69 12:77 32:91	66'86 47'24 71'41 69'06 72'60 88'45	9 48'09 53'08 48'02 63'57 91'81
	Darjeeling Hill.	Silinguri Darjeeling Kalimpong Kurseong	1.65 0.23 0.28 0.37 0.40	1°50 4°20 0°52 0°74 1°50	8-23 5'89 3'61 8'65 7'84	1.69 2.16 1.15 0.68 0.35	1'94 1'43 0'23 0'36 0'24	1'65 1'14 0'07 1'23 1'35	3°38 5°43 4'41 1°46 8°30	7 7 7 7 7 7 7 7	13°94 20°48 10°27 13°49 19°98	38'06 41'17 28'46 20'63 41'56	19-79 17-78 14-72	80.02 63.53 55.48 89.13	52 99 45 69 84 98 9
IN BRITAR.	Purneab	Kissenguage Arrareah Purneah Gondwara Balarampore Mattari Kaliaganj	0.01	0°12 0°38 2°35 0°17 0°60	0.75 1.73 0.07 2.50	0°94 0°78 1°39 2°70 0°61	3°15 3°28 0°05 0°37	1.56 0.54 0.49 2.20 0.33	0°95 1°23 2°18 3°00 0°60 0°47 2°50	6 6 7 1 8 4 5	7:47 7:93 6:54 3:10 6:27 3:45 6:97	14'56 16'40 19'24 5'86 11'84 8'09 12'98	10:54 9:48 7:56 P P P	40'92 32'9' 35'31 14'74 29'89 22'72 44'15 28'43	20°97 23°65 22°10 P
	North Bhagul- pore.	Maddapore Scopool Protabganj Tajpore		0.20	1°80 0°88 0°27	0.19	0°37 2°28	2.25 0.32 2.12 0.48	1.16 1.00	3 5 4	5°21 2 72 5°17 8°19	9'46 9'04 10'51	7'06 6'13 † 7'15	19°95	17.70 15.83 16.25
		Durbnucgs Madbubani Bahero Ecshera	0.62	0.02 0.82 0.10	0.08 0.15 0.40	0°80 0°03	0'42 0'42 0'15 0'15	0.38 0.20 0.06 1.00	2.38 4.18 2.32 0.60	6 5 6 6	6.84 6.50 3.88 3.45	12'03 9'24 7'86 5'46	7 05 6 31 9	24'.8 23'53 22'69 19'95	10.28 10.28
	Musufferpore	Sitamarhi Mosullerpore Hajipore Pars Mahua Siuhar Pupri	0°66 0°07 0°19	0°04 0°04 0°36 0°11 0°45 0°25 0°14	0°08 0°32 0°20 	0.15	0.91	1'49 0'12 0'52 2'78 1'10 1'17	2'98 4'79 2'65 1'25 0'65 2'80 3'40	6 5 5 4 4 4	5'16 5'27 3'43 2'36 3'85 4'35 4'78	8'03 9'03 10'10 9'10 9'94 7'28 8'90	6.84 7.24 6.83 P	19 19 19 19 19 19 19 19 19 19 19 19 19 1	16 20 14 76 9 9

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 18th of July 1890-concld.

					R.	AINPALI				Tot	AL				
Meteorological Division.	District.	Station.	Saturday, 12th July.	Sunday, 13th July.	Monday, 14th July.	Toesday, 15th July.	Wednesday, 16th July.	Thursday, 17th July.	Priday, 18th July.	Number of rainy days,	Rainfall of week.	Total rainfall since lst of month.	Average total rain- fall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15t May to date.
NORTH BEHAR —concluded	Chumparun	Motihari Bettiah Bagaha Burhurwa		0.13	0°34 0°02 0°15	6-03	0°77 0°72 0°71	2:43 0:80 1:97 0:80	2:89 1:33 1:39 0:74	3 5 4 5	5'38 3'26 4'10 1'08	11'02 9'55 13'49 5'05	6.76 8.21 P	29°00 24°08 50°77 20°93	16'0 17'9
SOUTH BEHAR	Sarun Shahabad	Gopalgunge Sewan Chuprah Buxar Dehrae Bhabooah Sasserain Arrah	0°24 0°64 2°74 0°07	0.31	0°10 0°29 0°04 0°21	0.30	0°50 0°24 0°15 2°02 0°05	0°30 0°84 2°58 0°03 0°25	0.74 0.16 0.88 2.10 0.41 2.50	4 6 5 5 5 5 8	1'64 1'97 4'34 7'21 6'77 8'05 0'76 3'57	4'11 6'71 5'89 9'23 2'86 6'85 3'69 10'83	7'89 7'04 6'94 5'63 6'37 6'77 5'43	14*46 20*91 17*94 20*11 18*18 16*61 18*91	15:0 15:0 13:0 11:2 11:2 12:0 11:2
	Qya	Mohaniah Aurungabad Gya Nowadah Johanabad Arwal Daudnagar Sherrghati Rajauli Pakri Barawan	0°11 0°22 0°12 0°12 1°00 0°80	2°43 0°43 0°08 0°14	0°93 0°07 0°20 0°65 0°44 0°60	0.07 0.10 0.60 0.32 0.10 1.50	0.09	0°32 1°17 0°70 	1'90 0'43 0'52 0'24 0'35 1'22 0'12 0'40	3 4 5 3 7 8 6 4	2'31 8'24 1'74 2'01 0'55 3'38 1'21 2'13 3'75	4'91 7'46 12'54 11'58 8'28 5'38 4'92 5'56	6:09 F 6:38 5:70 6:28 6:75 F	24*31 11*91 17*53 23*70 29*28 25*60 9*39 11*91 18*60	187 137 137 137 137 137
	Patus	Patna Disspere Kehar Barrh Bickram Hilsa	0°05 0°87 0°15	1.70 0.24 6.73 0.10	0.05 1,18 0.40 0.85	0.10	0.08 0.10 0.10 1.10 1.08	1'25	2'86 1'95 0'80 1'00 8'93 2'51	5 4 3 6 4	4.71 8.67 2.00 2.09 6.71 4.78	8:05 7:76 5:93 5:90 5:09 12:78	6°49 6°21 6°49 6°84	17:03 15:41 18:21 13:04 26:08 24:95	147 137 144 137
	Monghyr	Begooserai Monghyr Jamui Gogri Sheikpura	0°06 0°35 0°66	0.72 0.72	0.46 0.12 2.64 2.70	0°57 1°73 0°22 2°27		0*29	1'29 8'77 3'11 5'87	4 4 6 8 1	2°38 5°75 7°14 8°80 2°70	8'28 8'29 6'73 8'68 10'84 4'90	6:08 6:15 6:19	14'81 28'78 28'29 25'89 19'19	187 147 147
	South Bhagul- pore.	Banks Kelgeng Bangaon	1 42 0 06 0 10	0°48 1°20 1°05	0.69	0,18	0.32	1'85 2'07	0°88 1°04 0°25 0°86	5 4 5 3	4.77 1.88 3.50 3.98	8'52 8'17 15'23 7'14	5:42 5:77 ? ?	21.75 15.74 82.06 19.68	147
	Sonthal Per gunnahs.	Rajmehal Godoa Pakour Nya Doomka Deoghur Jamtara Mohagama Nanthat	0°75 0°14 0°86 0°35 0°79 0°13 0°65	0 46 0 03	1'78 2'05 6'90 0'21 0'14	0°12 0°48 0°01	0'15	1°96 3°91 9°61 2°55	1'87 2'65 0'73 0'41 3'15 0'64 2'12 1'05	5 5 6 4 5 5	2'74 6'51 5'64 5'67 4'69 3'73 2'92 3'77	5.76 8.85 8.79 10.91 6.48 7.27 7.30 5.02	8*11 5:72 7:70 6:68 6:85 6:95	21°75 22°81 34°78 27°85 19°04 29°07 22°42 12°28	215 147 215 187 177 177
CHUTIA NAG-	Hazaribagh	Pachamba (Giridi), Hazaribagh Semtagurah Mahudi Hil s Jhoomra Hills Barhi Uhatra Karagdeha Ramghar	0.78 0.12 0.70 2.35 0.45 2.57	0°38 0°02 2°22 0°70 	0.02 0.52 1.00 0.40 0.69	0°10 0°80	1°10 0°70	0°92 0°05 2°86 1 10 0°75 0°47	0:67 2:32 0:10 1:30 1:00 0:40 0:41	5 4 5 5 5 5	3:09 3:54 5:50 4:90 5:65 2:80 4:34	7:60 9:41 7:57 7:80 8:53 7:75 6:57	6.66 7.14 7.07 6.41 9.55 9	27°18 19°19 16°29 22°10 17°24 15°85 24°17	169 159 169 151 210 7
	Lohardugga	Lohardugga Kanchi Palamow Stili Balumat Josseinabad Garwah	0-21	0.22	0.35	0.55	0,15	0°21 0°05 0°60	0°90 0°07 0.25 0°68 1°40	5 8 8 2	0'90 1'30 0'52 1'41 2'00	5°20 5°93 3°14 4°46 4°50	7'11 7'36 6'77 1	15.79 14.48 13.50 13.21 14.90	169 184 184
	Singbhoom	Chyebassa Chakradhar- pore. Ghatsilla Baharagura	0.02	0.08	0*11				0.10	3	0°19 0°27	5°16	7 7 20 9	17*29 22:30	187
	Manbhoom	Purulia Gobindpore Kaphunath. pore.			0.83 0.83	8°11 0°17 0°22		0.41	0°15 0°19 4°14	3 4 2	3°58 0°88 4°36	7'21 3'70 8'12	6.89 6.47	29.61 15.81 24.57	17 W 15 St
		Jarrabhoom Jhalas			1'20	1'00 0'52	0*26	0°62 0°19 0°65	1.71 0.64	3 3 3	2*82 2*42 0*95	8'35 5'36 3'20		20°94 17°81 19°04	2 E

Explanation. indicates that at rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the return are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 22nd July 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 18TH OF JULY 1890.

Settled weather has prevailed throughout the week, the chief feature being the weak monsoon which has been blowing in the west of the Bay, while in the eastern and northern districts general and in some cases very heavy rain has fallen throughout the week. In Orissa and the adjacent part of South-West Bengal practically no rain has fallen, but in the opposite corner of the province, in the east of North Bengal, excessively heavy rain has been

received, excess in the Darjeeling hill tracts amounting to 13 inches.

The week commenced with the usual wind circulation, pressure slightly low and falling slowly in the northern districts, temperature one or two degrees below the normal in all districts, and light general rain except in the west. The wind circulation remained unchanged till the middle of the week, pressure changing slowly on the 12th and 13th, then rising rapidly for one day and again slowly on the 15th, after which a rapid fall set in, a shallow low-pressure area forming in the west of Behar and gradually extending eastwards till considerable defect prevailed in all the northern districts. General rain fell during these days in Behar. North and East Bengal, the falls being unusually heavy in the Darjeeling Hill districts and adjacent plains on Monday the 14th and 15th, diminishing in amount on the 16th, but again increasing after the rapid pressure changes during the latter half of the week. Temperature did not differ much from the normal in the first half of the week, and the usual small oscillations continued in all districts except North Bengal and Behar, where cool weather prevailed towards the end of the week. When the depression began to form in the west of Behar on the 16th, westerly winds commenced, and the current being comparatively dry, rain was much lighter on the 16th and 17th till pressure rising rapidly in North Bengal on Friday, the lighter on the 16th and 17th till pressure rising rapidly in North Bengal on Friday, the last day of the week, the easterly current again set in and very heavy rain was received at all the northern stations, especially in the west of Behar. On the 17th the westerly current extended as far east as Rungpore and Dhubri, but in the northern half of South-West Bengal and East Bengal light irregular winds were blowing, and the heaviest rain on this day fell in these districts. The absence of rain in the western districts was probably due to the comparatively dry westerly winds which have been blowing without interruption from Central India and extending as far west as the centre of South-West Bengal, and that the gurrent from the Bay has been confined to the east and north of Bengal and so that the current from the Bay has been confined to the east and north of Bengal and

Pressure—Rose briskly to rapidly on Monday, and fell rapidly about the middle of the week, but at other times changes have been unimportant. The means for the week are everywhere slightly in defect, the greatest differences being between '03 and 04 inch in North Bengal and Behar. In the lower districts the means are very nearly normal, defect

being generally only a few thousandths of an inch.

Temperature—Has been considerably below the normal in Assam, North Bengal, and Behar, in consequence of the heavy rain which has fallen in these districts, but in Orissa, South-

Behar, in consequence of the heavy rain which has fallen in these districts, but in Orissa, South-West Bengal, and Chutia Nagpur, where there has been a partial break in the rains, it has been slightly above the normal. Defect in North Behar is 2.3°, in Assam 2°, in North Bengal and South Behar between 1° and 1.5°, while excess is 7° in Orissa, and the means in the other districts differ from the normal by less than half a degree.

Rainfall—As stated above, was excessively heavy in the northern districts of North Bengal and part of North Behar on Monday the 14th and again on Friday the 18th; but on the latter date the rainfall area extended further south, nearly all the stations in Behar reporting from two to five inches. Some of the heaviest falls on the 14th are—Kalimpong 8.6, Kurseong 7.8, Siliguri 5.9 inches, and Julpigoree received 7 inches on the 15th. On the 18th Kurseong reported 8.3, Siliguri 5.4, Tajpore 6.9, Durbhunga 5.3, Mozufferpore 4.7, Gogri 5.9, and Bickram 4 inches. In Orissa and the adjacent parts of South-West Bengal and Chutia Nagpur the total falls for the week are in almost all cases under half an inch. In the northern part of South-West Bengal and in East Bengal, falls are half an inch. In the northern part of South-West Bengal and in East Bengal, falls are in many cases between 1 and 2 inches and at a few stations over 3 inches, the heaviest being in Moorshedabad and Backergunge. In Pubna, Bogra, Rajshahye, Maldah, and Rungpore, the average fall is about 2 inches, in Dinagepore 5 inches, but in Julpigoree and the Darjeeling hills heavy falls are reported, the average for the latter being 15 inches. In North Behar falls are generally between 4 and 6 inches, the heaviest being in Purneah and Durbhunga. Amounts are more variable in South Behar and the northern parts of Chutia Nagpur, and generally lie between 2 and 5 inches.

The mean fall for North Behar is 5:1 inches, for East and North Bengal and South

Behar about 3.5 inches, Chutia Nagpur 2.2 inches, South-West Bengal 1.6 inches, and Orissa 1 inch. Excess in North Behar is 3.1 inches, and defect in Orissa over 2 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 18th of July 1890:—

			TEMPI	RATU	RE.		17			B	AINFA	LL.				
	week.	week,	Averag	res for	week.	above or week.	,	of wee	k.	R	ainy de	ys.	Since of mo		Since Ma	
METEOROLOGICAL DIVISIONS.	Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week a below normal mean of w	Average.	Normal average.	Variation.	Average number in week.	Normal average num- ber in week.	Variation,	Average.	Normal average.	Average.	Normal average,
Orissa	93'4	77'3	89.0	80.0	84'5	+0.7	0.92	3.15	-2.20	5.5	4:1	-1.9	7.22	7'02	21.20	17:89
South-West Bengal	94'8	74'3	8915	79'0	84'3	+01	1.63	2.37	-0'74	3.2	4'3	-0.8	5.74	6.48	24.07	19:35
East Bengal	89'8	67'0	86'0	77'0	81'5	-0'4	3.37	3.35	+0.02	5'5	5.0	+0.2	9:32	8.80	31.90	31.25
North Bengal	92'8	74'6	88'1	78'1	83'1	-1.5	3.88	2.21	+1'37	53	41	+1'4	8 76	8.20	35'90	31.26
North Behar	90.7	74.6	88'0	77.7	82.9	-2.3	5.10	1.97	+3.13	5.1	30	+2.1	10.04	7'41	24'31	17.09
south senar	92'4	73.7	88'4	78'5	83.2	-1/3	3.22	2.04	+1.21	4.2	3.6	+0.6	7'44	6:38	21.31	14.78
Chutia Naspur	86.0*	71.4	84'6*	73'3"	79:0*	+0.8*	2.50	2.62	-0.42	8'5	4'6	-1.1	5'92	7.15	17'04	16.83
Assam	92.6	75'5	87'8	77'1	82'4	-2.0		Desc.	1	443	BU	11.53	421	11.0	1800	-

^{*} Chyebases not included.

METEOROLOGICAL OFFICE, BENGAL;

The 22nd July 1890.

C. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 13th to 19th July 1890.

		A.M.			TEMP	ERATURE,			E	LYGROMETR	r.	dirs.
MONTE.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Daily mean,	Maximum.	Range.	Minimum,	Dry bulb at 10 A.M.	Wet bulb at 10	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10	Rainfall past 24 hours
		Inches.		•		0	10	0	Inches.	0	1 %	Inches
July 1800	18th 14th 15th 16th 17th 18th 19th	29·578 *645 *667 *610 *511 *510 *518	84·8 84·9 84·0 86·2 85·2 86·0 85·2	89·0 91·0 89·2 91·5 89·0 91·0 91·0	9·4 12·2 10·4 10·7 7·7 10·0 11·7	79.6 78.8 78.8 80.8 81.3 81.0 79.3	83·6 84·6 81·6 86·6 85·6 87·6 87·9	80·5 80·5 79·5 82·5 79·5 83·5 81·5	1.001 -987 -981 1.057 -927 1.094 1.003	79·3 78·8 78·7 80·9 76·7 82·0 80·0	87 83 91 84 76 84 78	i ö₁1
616.7 01.00 1	The mea	in 10 a	м. pres	sure of	the sev	en day	ß			T 11	Inches. 29.577	
	The mean The extra The max	eme va	riation	of tem				orio designado Torrospo Sogrados			85·1 12·7 91·5	
	The mea	in 10 a	м. relat	tive hu	midity	of the	seven d	lays	The state of the s	THE PARTY OF	% 83 Inches	
The	The tota								and mi	nimum t	0·11 emperatu	TOS

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA; The 21st July 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 13th to 19th July 1890.

			s of	meter		TEMPER	RATURE.			HYGROM	ETRY.		WIND.			
Month,	Date,	Maximum in sun.	Number of hours bright sunshine.	Mean pressure barometer at 32° Fahr.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point,	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Weather.
890.		0		Inches.	0	0	0	0	0	Inches	0	%			Inches.	
luly	13th	155 3	2.0	29:537	83.6	87:3	8.1	79.2	80.3	0.993	79.0	86	SSW and S	64	0.01	Chiefly cloudy
,,	14th	150.5	6.8	602	84.2	88.6	10 2	78.4	80.6	-997	79.1	85	SSE	61	Nil	Partially cloudy
,,	15th	145-6	5.7	*610	84.0	87.8	9.8	78 0	80-2	-978	78-6	84	SSW and calm	98	0:10	Partially cloudy p.
,,	16th	145.5	1.5	£36	84-9	89.8	9.6	80.2	83-6	991	79.0	83	SSW, WSW and	109	Nil	Chiefly cloudy
21	17th	144-5	1:7	458	85.1	87.8	7.0	80.8	81-3	1:018	79.8	84	Variable and calm	38	····	Chiefly cloudy
•	18th	148-4	1.0	-466	85.4	90.1	9-9	80.5	81-3	1.015	79.7	83	SSE and calm	43	0.02	Chiefly cloudy
,,	19th	156 9	5:8	•464	84:5	88-5	9.9	78-6	79.5	0.942	77.4	79	SE by S and ESE	102	0.06	Partially cloudy

My thin the the first month to make the	Hart Charles	15			Inches.
The mean pressure of the seven days		A CONTRACTOR	2011年1月	FITTING CO.	29.524
The average pressure of the correspond	ing period for	24 years.	SG.'s O		29.518
					Hours,
The total number of hours of bright su	inshine .				24.0
The maximum possible number of hou			38		93.4
					0
The mean temperature of the seven da	vs				84.5
The average temperature of the corresp		for 24 ye	ars, SG.'	s Office	83.5
The extreme variation of temperature					12.1
The maximum temperature	de Cow. Jh		4	****	90.1
Calley a second have large been		E. C. British			Miles.
The highest velocity of the wind in on	e hour				11
			STANDARDS	Stienter's	lbs.
The highest pressure of wind on one s	quare foot			Not me	asurable.
The mean relative humidity				***	°/ ₈₃
The average relative humidity of the c	orresponding	period for	24 years,	SG.'s	
Office		The same	the state of the		86
					Inches,
The total fall of rain from 13th to 19t	h July 1890	网络福州市		When the	0.19
The average fall of the corresponding		ears. SG.	's Office	for home and	2.76
The total fall from 1st January to 19th		41111 30 ,640	August Bally	Ness Arill	26.77
The average fall of the corresponding		PARTS SG	's Office	DE SUE	28.98
meen pressure temperature &c ered					

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly

at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overeast; d, drizzling rain; p, passing temporary showers; g, gloomy; t, thunder.

J. H. GILLILAND,

For Meteorological Reporter to the Goet. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 21st July 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 5th July 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 5th July 1890, in twenty-seven principal towns of Bengal, excluding one (Gya) from which no return has yet been received, correspond to an annual rate of 16.4 per 1,000 of the aggregate population of the twenty-six towns, which is 985,453. This rate is 2.9 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1886—vide the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	23.4	16.1	20.2	18:2	18'0	19:8	16'4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

		N.	V	VEEKS E	NDING-				60	V	VEEKS E	NDING-	
	napore			21st June 1890.	28th June 1890.	5th July 1890.	Tot	wns.		14th June 1890.	tlst June 1890.	28th June 1890.	5th July 1890.
Burdwan Midnapore Hughli and Serampore Utterpara Howrah Bali Kishnsgar Rensghat Santipore Jessore Rampore Be Darjiling Dacca	Chinsurah		32'0 13'0 19'7 23'6 18'9 10'5 15'1 12'0 17'5 6'1 31'5	7'8 3'1 14'8 29'4 9'4 15'5 10'5 9'5 8'8 36'8 59'3 7'8	19·8 20·1 18·1 27·5 9·4 13·2 14·0 26·5 6·0 17·5 34·2 	16'8 17'0 26'3 25'5 37'7 21'2 10'5 1'9 18'0 12'3 6'1 34'2 14'8 11'0	Narainganj Chittacong Comilah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Monghyr Purneah Poori			12'4 9'4 38'5 7'5 16'4 8'4 7'3 20'5 4'0 12'7 20'8 13'9 21'0	58°0 23°5 11°5 7°8 12°3 17°9 18°2 17°3 3°0 17°2 23°5 29°4	12'4 21'1 38'5 11'4 21'9 10'8 15'8 28'3 8'0 21'7 24'4 3'5 14'7	4'1 42'3 34'7 10'1 Data not fur- nished 14'4 13'4 13'4 13'4 13'5 7'0 29'9 14'5 17'3 23'1

It will be seen that last week the highest birth-rate was returned from Chittagong (42.3) and the lowest from Kishnagar (1.9).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 19.6 per 1,000 of the population. The rate of the week is 4.8 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—vide the figures below:—

	1885,	1886.	1887,	1888.	1889.	Weekly average of five years 1880—89,	1890.
Ratio of deaths per 1,000 of the population per annum	28'5	22.5	23'4	18'4	29.0	24'4	19:6

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

		VEEKS E	NDING-		des d'intere donc l'interest		Weeks E	NDING-	
Towns.	14th June 1890.	21st June 1890.	28th Jane 1890.	6th July 1890.	Towns,	14th June 1890.	21st June 1890.	28th June 1890.	6th July 1890.
Burdwan Midnapore Hughii and Chinsurah Serampore Utterpara Howrah Hali Kishnagar Ranaghat Santipore Jessore Rampore Beauleah Darjiling Ducca	19'8 15'5 29'5 23'6 18'9 20'6 14'0 9'5 6'0 14'0 12'2 23'6 14'8 24'0	15°3 20°1 19°7 15°7 28°3 12°0 17°5 	19'8 26'3 27'9 29'4 8'6 10'5 7'0 12'2 15'8 59'3 19'5	16'8 21'7 23'0 29'4 9'4 8'6 13'2 6'0 14'0 18'4 15'8 51'9 21'4	Narainganj Chittazong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Monghyr Parueah Poori	24'8 11'7 34'7 17'5 27'3 18'2 28'0 38'0 12'1 24'4 18'1 18'1 15'1	16.6 16.4 11.5 15.3 34.8 37.1 26.8 21.2 14.1 18.1 17.2 10.4 363.0	90°7 28°5 34°7 14'3 27'3 45°5 36°5 26°0 19'1 16°S 19'9 27'7 245'5	8°3 37°6 46°2 15°3 Data not fu nishe 31°1 31°6 17°3 8°0 16°4 9°0 16°4 8°6

It will be seen that last week the highest mortality occurred in the town of Poori (86.) and the lowest in Ranaghat (6.)

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:-

Chole	era.		Small-pox.	Fever	100	Bovel-con	plaints.	Other ca	uses.
		Ratio per mille.	Ratio y mille	er	Ratio per		Ratio per mille.		Ratio per mille.
Poori Mozofferpore Arrali Durbhanga		13.2	Hughli and Chin- surah 4.9	Comillah Darjiling	34·7 29·6	Darjiling Poori	22·2 14·6	Poori Serampore Chittagong	15.7

The total mortality from the several registered death-causes in the twenty-six towns amounted to 3.3 from cholera, against 7.6 per 1,000 in the preceding week; 5 from small-pox, against 3; 8.1 from fever, against 8.5; 2 from bowel-complaints, against 3.2; 3 from injury, against 6; and 5.4 from other causes, against 5.3 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.		According t	o Class.	1.5	According to	Age.
	Ratio per mille.			Ratio per		Ratio pe
males tio of male deaths to every 100 female deaths,	18·4 H	hristians Iindus Iahomedans Judhists		22.5 18.9 21.3 25.7	Under 1 year 1 and under 5 year 5 ,. 10 ,, 10 ,, 15 ,,	s 160·9 s 31·2 12·6 12·8

Mal Fen Rat portion such mortality bears to the total male and female population ... 9.5 30 40 40 50 10.6 *** 13·1 19·1 50 ,, 60 ,, 60 years and upwards 48 1.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 22nd July 1890.

Sanitary Commissioner for Bengal.

1		The Island	,						8	1	6				7						10	8				9	10		11	1	15
E				1															M	DRTA	LITY	ACCO	RDIN	G TO	110000						
		POI	PULATI	ON.			I	BIRTH	IS.								-	D	isease							pre-			Se	x.	
	NAMES OF				NUM	BBR O	,-	OF Po	PULAT ANNU	MOI	to every			DEAT	ns PR)M-			RAT	10 PR	1,000 A N	OF PO	PULAT	HON I	RR	i,000 or j m in the	DEAT	H8.	RATIO 1,00 POPUL PERAN	O OF ATION	deaths to a deaths, a propor- y bears to ad female
DISTRICTS.	MUNICIPALI- TIES,	Males.	Formales	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Ratio of male births 100 female births.	Cholera.	Small-por.	Fevers.	Bowel-complaints.	Injury.	Other discases.	M canses.	Cholera.	Small-pox.	Pevers.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per lation per annu vious week.	Males.	Femules.	Males.	.80	Ratio of male every 100 femal calculated on the tion such mortalist the fotal male a
	Davidson	18,063	16,017	34,080	6	5	11	9-2	7.6	16.8	120			6	1		4	11			9.2	1.2		6-1	16.8	19'8	5	6	14'4	19'5	73
urdwan	Burdwan		1233757	\$8,560	5	6	11	7.7	9.3	17-0	88	3		4	2		5	14	4'6		6.2	3.1		7-7	21.7	26'3	10	4	30.7	12.2	245
idnapore	Midnapore	18,927	16,633	31,687	8	8	16	18.1	13:1	26.3	100		3	9			2	14	1,1	4'9	14'8	***		3-3	23.0	27-9	6	8	19.7	26.3	74
ughli	rah.	15,858	12,937	26,496	7	6	13	13-7	11.8	25.5	116	2		9	3		8	15	3.9		3.9	5.9	5.4	15.7	29-4	20'4	9	6	34'5	241	143
rampore {	Serampore	13,559	NO SHOW		3	1	4	28'3	9.4	87-7	300	1						1	9.4					***	9.4		1		17'1	***	No fema
	Utterpars	3,046	2,464	5,510	21	16	37	12.0	9.2	21.2	131	1	1	5	2		6	15	-6	.6	2-9	11		3.4	8.6	8.8	10	5	9.8	6.9	death.
owrah {	Howrah	53,153	37,660	90,813	-	1	3	7.0	3.2	10.5	200			5			2	7			17.5			7.0	21.6	10.5	3	4	19.9	29.8	67
•	Bali	7,836	6,979	14,815					1'9	1.9	No male	H.	***	5			2	7			9.4			38	13.2		4	3	157	11.0	149
	Kishnagar	13,263	14,214	27,477		2	2	6.0	12.0	18.0	birth.		***	1			1	1						6.0	6-0		1		12'9		No fema
uddes	Ranaghat	4,028	4,655	8,683		1	7	5'3	7.0	12.3	50						1	8	3.2		8.8			1.7	14.0	7'0	4	4	15.2	13:0	denth.
	Santipore	18,708	15,979	29,687	3				61	6.1	75	2			,	21957		3		(2) C.	12-2	6.1	1		18:4	12.2	3		32'3		No fema
essore	Jessore	4,830	3,665	8,495				23.6	0.00	34.2	No male birth.	***		VAC			1	6			13.1			2.6	15.8	15'8	3	3	14'5	17'3	death.
ajshahye	Rampore Beauleah	10,766	9,025	19,791	9	4	13				225	***	**		3	***		7		***	29.6	24.2	100	15 Jan 27 16	51.9	59-3	3	4	34'1	85.3	40
arjiling	Darjiling	4,579	2,439	7,018	***	2	20		14'8	11.0	No male birth		***	*	,	".	9	- 33	1.3	""	13.0	.6	***	5.8	21.4	19.5	19	14	23'1	19.5	118
necs {	Daeca	42,782	37,379	80,161	7	10	17	4.2	6.2	Ref.	70	2		20		1	100	9		***	1631	41		41	8.3	20-7	1		6'8	10.2	100
	Narainganj	7,605	4,956	12,561	***	1	1	9040	41	4.1	No male birth.		***	***	1	4"	1	200	***		1010	10.63		Page 18	37-6	23.2	11	5	42'9	29 6	145
hittagong	Chittagong	13,340	8,790	22,130	12	6	18	28.2		43.3	200	***	•••	8	2		5	16	***	***	18'8	4.7	2.3	11.7	46-9	34 6	5		81'9	68.0	47
pperah	Comillah	8,153	5,353	13,506	5	4	9	19.3	15'4	34.7	125		485	9	•••	1	2	19	***	""	34.7	***	3.8	7.7	15%	1		7		175	128
atna	Pains City	78,762	81,475	160,237	13	18	31	4.3	2.8	10.1	72	6	3	14	6	3	16	47	1.9	1.0	4.2	1.9	.6	5.2	10.0	14'3	26	21	17-2	13.4	1.0
ya	Gya		E SI					100	1			3	Ret	turn no	t recei	ved up	to dat		F. 6			T C	1		2			1	94.7	97.4	125
hahabad	Arrah	20,960	22,505	43,465	3	9	19	8.6	10:8	14.4	88	11		10	1		4	26	13.2		12.0	1'2		4.8	31.1	300	14	12	34.7	27.7	DESTRU
lozufferpore .	Mozufferpore	23,084	19,658	42,742	7	4	11	8.2	4.9	13.4	175	12	1	7	4	444	2	26	14.6	1.5	8.5	4.9	***	2.4	31.6	36'5	11	15	248	39.7	62
urbhanga	Durbhanga	33,774	32,322	66,096	8	9	17	6.3	71	13.4	88	8		10	2	-	2	22	6.3		7.9	1.6	144	1'5	17.3	20.0	12	10	18.5	16.1	115
run	Chupra	25,116	26,554	51,670	4	3	7	4.)	3.0	7.0	133	244	1	2	1	1	3	8		1.0	5.0	1.0	1.0	3.0	8.6	1000	3	5	6.3	9.8	63
hagulpore	Bhagulpore	29,640	27,813	57,453	16	17	33	14'5	15'4	29.9	94	1		10			6	17	.9		9.1	***		5.4	15.4	16.3	8	9	14.0	16.8	83
onghyr	Monghyr	28,154	29,366	57,520	7	9	16	6.3	81	14.5	77	***		1	1	***	8	10			.8	.8		7.2	9.0	19.9	9	1	16.6	1.8	922
arneah	Purneah	8,463	6,553	15,016	4	1	5	13.8	8.2	17.3	400			2	1			3		***	6.9	3.2	***		10-4	27.7	2	1	12.3	7.9	155
oori	Poori	13,247	11,537	24,784	9	2	11	18-9	4.2	23.1	450	18	: 1	8	7		12	41	27'3	2.1	16.8	14'6		25.2	86-6	945'5	22	19	86'4	85'6	101
				200			-					100 PAS	-	-		7110	3000	57.547	75	10000	_	-	-		-28		-	1	7 28	-	CONTRACT OF

W. H. GREGG, Dip. Publ. Health, Camb., Sandary Commissioner for Bengal.

Office of Sanitary Commissioner for Bengal,

The 22nd July 1890.

	Poori	Purneah	Monghyr	Bhagulpore	Barun "	Durbhanga	Mosufferpore	Shahabad	Gya	Paina	Tipperah	Chittagong		Danca	Darjiling	Rajshabye	Jessore		Nudden			Howrah _ {	Z. andming	5	Hughli	Midnapore	Burdwan		DISTRICTS.		
Toral	Poori	. Purneah	Monghyr	. Bhagulpore	Chupra	Durbhanga	Mozufferpore	Arrab	- Сум	Pains City	Comtlish	Chittagong	(Naraingan)	Dados	. Darjiling	Rampore Beaul	Jessore	Santipore	Ransghat	Kishnagar	Ball	Howrah	Utterpara	Serampore	Hughli and Chi	Midnapore .	Burdwas		NAMES OF MUNICIPALL. TIES.		
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7-60	1209'3	i	1	i	1	1	1	1		1	1		1	ı	1	1	1	1	i			59.4	i	i	;	1	1	Christians.	RATI		
1879	84.8	17.0	7.0	137	7	146	32.9	28.5		17.0	70.0	9.0	1	93.5	67.9	15.7	11.6	20.1	7	5.6	53.3	60	9.8	26.8	92.6	16.0	15'4	Hindus.	NOIL BEE OF		
8,18	1	1	16.2	217	87	26.6	29.2	37.7		1072	28.1	0.19	16-9	19.8	1	15-9	27-9	1	-	31.4	89-7	14-9	1	110.8	25.3	43-2	20 3	Mahomedans.	1,000 c		
2.50			1	1		1	i	1	16.	1	1	1	1		31.5	1	ı	i	1	1	i	ŧ	ı	1	1		1	Buddhists.	RATIO PER 1,000 OF POPULA- TION PER ANNUM.	1	
: .	1	1	1,	1	1	1	1	ı		1	ī		ı	ı	1	1	1	r	100	1	ī	ı	ì	1	1	1		Other classes.	01.4		
17.	CA CA	:	6	to	60	6	s	6	10	10	10	-	10		1	10		1	i	ı	1	Ço	1	CH .	10	80	4	Under 1 year.			
2	10	1	1	Cr.	10	CN	10		eturn	7	1				10	-		1	i	i	16	16	1	80	10	1	1	and under 5 years.			
95	1	1	1	1	ı	80	co	1	not rec	61	1	1	ı	00	1	1	1	i,	.1	1	ı	1	ı	1	1	1	_	5 and under 10 years.			
99	1	1	ı	to	i	10	10	10	gived 1	C1	1	10	1	Co	ı	i		i	ı	1	1		i	1	1	ŧ	,	10 and under 15 years.			×
90	1	i	1	60	1	1	1	10	ip to date.	3	1	1	ı	60	1	ı	i		1	i	ı	1		1	ca	1	1	15 and under 20 years.	DEATES.		MORTALITY
900	4	1	1	to	1	1	1	69	ate.		L	1	1		10	1	1	1	ı	60	1	1	i	1	10	to		20 and under 30 years.	H.S.		LITY
a i	Un	1	10	1	ı	1	to	4		1	1	1	ı	Č6	1	1	1	10	i	. 60	i	co	1	i	1	to	i	30 and under 40 years.			ACC
1	Çis.	1	1	1	i	1	S	10	100	4	1	4	1	i	1		i	1	1	1	co	10	1	1	1	10	-	40 and under 50 years.			BDII
199	6	1	1	10	1	10	1	1		10	ŧ	10	ī	ço	1	1	1	1	ı		4		i	10	to		L	50 and under 60 years.			ACCURDING TO-
g	11		1		80	63	1	1	A	7	o.	1	1	6		1	i	CI	1	i	i	10	1	4	1	Co	!	60 years and up- wards.			1
6.091	858.1		170'1	871	110.6	200.4	163.4	242-2		120-6	220.5	277.1	372-8	109.6	429-8	256-2	268'0	61.5	i		145'6	75.6	1	366-2	129.5	140.0	315-2	Under 1 year.		A	
37.4	57.9	43.0	L	45'0	201	34.9	128-7	46-9		24.9	1			28.9	161.7	1	i	1	1	1	1047	18.8		57.6	46.9	1.66	23.0	land under5 years.		Age.	
i		0		. 0								100		511						-						1500	10.5	5 and under 10	RATI		
19.61	23.5		100	4		10.00	34.7	10.1		154	6.18	8.08		15-7	88.9	0.55	65.6		-	15.1		8.8		•	18.0	13-9	22.3	years.	O PER		
8.21	277	45.5	I	16.5	ı	18-7	29.50	98.5		18.1	1	40.4	i	19.6	I	1	1	1	1	1	1	1	1	93.4	1	I	207	to and under 15 years.	1,000 0		
1317	1	1	:	87.8	1	12.9	17.9	32'4		14.0	41.3	21.5		9.15	1	i	I	1	1			·	1	1	62.9	16.5	16.6	15 and under 20 years.	Popu		
0.5	39-4	15.8	5.0	9.6	5.6	1	6.1	19.9		7-2	1	1179	ı	13.6	0.59	1	25.8	i.	i	32.4	15.2	140		9.7	16.8	14.2	6-6	20 and under 30 years.	RATIO PER 1,000 OF POPULATION		
1006	102-6	-	0 117	1	1	f	14.9	35.3		1	261	15.6	,	8 13.4	1	14.4	i	24.0	1	21.3		6.9	49.0	1	97	18.8	,	30 and under 40 years.	PER	N. S.	
Ī	*												,		10.	-	1				00		0		1	UP S	-	40 and under 50	WASEKY		100
181	46.9	•	00	8.8		7.0 2	51.6	22.2		0.11	9.65	8-86		60	21		•			15.9	9.08	8.8		Ć1		27-9	11.8	years. 50 and under 60			T.
	130.8	1		24.4	1	23-7	1	16.8	50	7.4 2	*	9 6.58	1	32-9 5	2131	41.9 2	1			1	•	2.6		54.8 14	40.0 2	-	21.8	years.	450		H
#8.1	3167		14.5	1	30.6	48.8	F.13	18'0		£.02	2.09	8.53	1	0.92	1	0.99	1	32.4	91.4		1	27.7		49.5	25.1	85.8	1	60 years and up-			1

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of May 1890.

ORISSA CIRCLE.

TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. MACHGONG ,, 4 ,,

			TOTAL GOVERNMENT	TAND THINAID.		PRIV		
Number of boats or raits.	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupee	9.
	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos			Nil.				
	12. Total13. Total of same month last year.							
		Up.	Down.	Total.			\	Rs. A.
T. T. S. C. C. C. C. C.	unmost or pours by				Total tolla	ge of month	1-1	
ing 15. Total ply 16. Total car 17. Total pa 18. Ton-					Total toll month las	+ 26 lage of sa	}	Nil
ing 15. Total ply 16. Total car 17. Total pa 18. Ton-1 19. Estim 20. Num 21. Rafts 22. Do.,	number of boats ring passenger No. registered tonnage, registered tonnage, seenger Tons		Nil.		Total toll month las	lage of sast year emorandum of the last o	f Tollage	
ing 15. Total	number of boats ring passenger No. registered tonnage, roo Tons registered tonnage, seenger Tons mileage ated value of cargo Rs. ber of passengers bullahs ,, nated value of rafts Rs. ge on boats ,,		Nil		Total toll month las M 1. Balance on to mon 2. Tollage 3. 4. Amoun	lage of sast year emorandum of the last of the last of the per month Total	f Tollage	e. Rs. a

KENDRAPARA CANAL SYSTEM. Length of Canal open, 75 miles.

			TOTAL GOVERNME	NT AND PRIVATE.		Priv	ATE.		
Number of boats or rafts.	DESCRIPTION.		Quantity-Tons.	- HINT 27	Value.	Quantity.	Valu	ie.	ARKE.
		Up.	Down,	Total.	Rupees.	Tons.	Rape	105.	REMARKS
4	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos		93	93	90				Canal closed for annual repairs,
4	12. Total	3¥	93	93	90		.,		Canal el
2 & 2 rafts.	13. Total of same month last year.		5 & 511 No.	5 & 511 No.	100	5 & 511 No.		100	
		Up.	Down.	Total.					3
ing	number of boats ply- g cargo No.		4	4	Total tolls	age of month	_	Rs.	Α.
	number of boats ply- g passenger No.	1		1	24 + 25	+ 26		39 1	15
6. Total	registered tonnage, rgo, private Tons		ر		Total toll month las		me 	82	9
61. Ditte	o ditto, Government ,,		201	201		V = 1	2 SEC.		
	registered tonnage, ssenger Tons	2		2	A	Iemorandum (of Toll	age.	4
71. Emp	oty boats ,,	122	27	149				Rs.	۸.
8. Ton-n	nileage	541	189	730		not recove			
9. Estim	nated value of cargo Rs.	19.34	90	90	mon	the 1st of		5,110	10
0. Numl	ber of passengers	2		2	2 Tollage	per month		on .	
1. Rafts,	, bamboos C. ft.	\				per month refunded wh		39 1	10
2. Do.,	bullahs ,,				was erro	neously sho e in July 18	wn	_8 I	9
d. Estim	nated value of rafts Rs.				us Darane	o in July 18		-0.1	~
4. Tollag	ge on boats	8-10-6	31-4-11	39-15-5	3.	Total	5	,141 1	3 1
bos					4. Amount	t credited accounts of t	in he		
	ge on rafts "				mont		5,	072 10) 11
ton	tollage on boats per is-mile Rs.			0-0-1:5	5, Balance	due at the en	nd -		
Total	tollage on rafts per cubic feet Ks.					CONTRACTOR OF THE PARTY OF THE		69	3

HIGH LEVEL CANAL, RANGE I.

LENGTH OF CANAL OPEN, 33 MILES.

			TOTAL GOVERNMEN	T AND PRIVATE.		Paiv	ATE.		
Number of boats	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	Valu	0.	T) vig
or rafts.		Up,	Down.	Total.	Rupees.	Tons.	Rupe	es,	1
	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos			Nil.					
	12. Total								
	13. Total of same month last year			Nil.					
		Up.	Down	Total.	Total toll	age of mon	th—	Rs.	
in	l number of boats ply- g cargo No.		erke		Total tolla last year	ge of same m	onth		大学 のない 日本の
in	g passenger No. I registered tonnage,				20	Temorandum o	f Tolla	ge.	THE REAL PROPERTY.
17. Total pa	rgo Tons l registered tonnage, assenger Tons mileage nated value of cargo Rs.				on	e not recover the 1st of th		Rs.	
20. Num	aber of passengers s, bamboos C. ft.	}	Nil.	91	2. Tollage	per month			
23. Estir	mated value of rafts Rs.		3		3.	Total		641	1
25. Com	pounded tollage on Rs.			162111		t credited in		641	1
7. Tota	age on rafts ,, I tollage on boats per con-mile Rs.				5 Balance	e due at the			大学 对 表示性
28. Tota	d tollage on rafts per 00 cubic feet Rs.					he month	end	1000	NICOS STATE

HIGH LEVEL CANAL, RANGE II.

LENGTH OF CANAL OPEN, 121 MILES.

			COTAL GOVERNMENT	AUD THITAIN.		Priv	AIB.	
Number of boats or rafts.	DESCRIPTION.	100	Quantity-Tons.		Value.	Quantity.	Value	9. 8mm mm
	•	Up.	Down.	Total.	Rupees.	Tons.	Rupe	REM .sc
	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos	}		Nil.				Canal closed for annual repairs.
	12. Total							Canal clo
	13. Total of same month last year.			Al Action				
		Up.	Down.	Total.		ky Jakov 341	io Tarre	and Page
4. Total ing	number of boats ply- g cargo No.				Total tolla 24 + 25	ge of month + 26		Rs. A. 1
	number of boats ply- g passenger No.	21	24	45	Total toll	age of sa	me	
5½. Ditte	o empty boats "	••••			month las	t year	•••	•••••
	registered tonnage,							- Arg Colony
	o Gort. ditto "	,		•	1	Temorandum (of Tolla	ige.
	registered tonnage, ssenger Tons	538	411	949	100000			
	o empty ditto "	7				A Speller in Security		Rs. A. 1
	nileage	6,456	1,238	7,689		not recove he 1st of	the	
9. Estim	mted value of cargo Rs.							
0. Numl	ber of passengers				9 Tollage			163 4 (
l. Rafts,	, bamboos C. ft.				2. Tollage	per month		100 4 (
22. Do.,	bullahs "							100 4 0
23. Estim	nated value of rafts Rs.	C			3.	Total	•••	163 4 6
4. Tollag	ge on boats "	71-6-6	91-14-0	163-4-6				
bos					4. Amount the a mont	ecounts of t	in he	63 4 6
	ge on rafts "					(大)(()()()()()()()()()()()()()()()()()(da de la companya de
7. Total ton	tollage on boats per a-mile Rs.	·			5. Balance	due at the er	nd	lo la
28. Total 100	tollage on rafts per cubic feet Rs.				of the	e month .		•••••
	THE RESERVE TO SERVE THE RESERVE TO SERVE THE RESERVE							DOM:

HIGH LEVEL CANAL, RANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

Number of			OTAL GOVERNMENT						
boats or rafts,	DESCRIPTION.		Quantity—Tons.		Value.	Quantity.	Va	lue.	
		Up.	Down.	Total.	Rupees.	Tons.	Ru	pees.	
	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos			Nil.					
	12. Total								
	13. Total of same month last year.								1
		Up.	Down.	Total.					
								Rs.	A
ca	number of boats plying rgo No.				Total tolla 24 + 25	ge of mont	h— 	135	4
ing	number of boats ply- g passenger No.	21 5	24	45 5	Total tollag	ge of same m	onth	•	はいい
6. Total cargo	EMELIE EN LA CALLANTE DE CALLANTE DEL CALLANTE DE LA CALLANTE DE		1			velation and		ryrogit	通過
61. Ditt	o of Govt. do. "				М	emorandum e	of Tol	lage.	
	registered tonnage, ssenger Tons	341	467	808		AP	270		
73. Ditt	to empty ditto ",	17		17		olar define		Rs	
18. Ton-		6,717	8,873	15,590		not recover the 1st of the		_0	1
	nated value of cargo Rs.		•••••					1000	
	ber of passengers		••••		2. Tollage	per month		135	The second
	s, bamboos C. ft.								200
	., bullahs " mated value of rafts Rs.		/	••••	3.	Total	•••	134	1
MATERIAL VIEW	age on boats ,,	56-4-0	79-0-6	135-4-6	4. Amoun	t credited	in		TO HE
25. Com	pounded tollage on Rs.					accounts of		135	
	age on rafts ,,								
27. Tota	al tollage on boats per on-mile Rs.	A STATE OF THE PARTY OF THE PAR							
	al tollage on rafts per					e due at the	end		1

^{*} Of this amount, Rs. 133-1-8 is for tollage on transport service for April 1890.

JAJEPORE CANAL LENGTH OF CANAL OPEN, 61 MILES.

143			Total Governmen	r and Private.		Parv	ATE.		
boats or rafts.	DESCRIPTION.		Quantity-Tons.		Value,	Quantity.	Val	ne.	DEWARE
		Up.	Down,	Total.	Rupees.	Tons.	Rupe	es.	Date
	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos	\		Nil.					Canal closed for annual repairs.
	12. Total						AM .		Canal clos
	13. Total of same month last year.								
		Up.	Down,	Total.					
	number of boats ply- g cargo No.				Total tolla	ge of month	1—	Rs. A	
	number of boats ply- g passenger No.	15	14	29	24 + 25	+ 26	•••	15 0	
5]. Ditt	o empty ditto "		•••••		Total toll		me		
o Total cargo		*							
	o of Govt. do. "			•••	М	emorandum of	Tolla	ge.	
7. Total	registered tonnage, assenger Tons	110	103	213				LUSe I	
7½. Ditt	o empty ditto "							Rs. A.	. 1/2
8. Ton-n	nileage	660	618	1,278			he		100 mm
. Estim	ated value of cargo Rs.							0 4	
). Numl	ber of passengers				2. Tollage	per month		15 0	
l. Rafts	, bamboos C. ft.							(7) VA	
	bullahs "	\			8.	Total		15 4	Tesc
	nated value of rafts Rs.				1			57	
VIN ALL DESTRUCTION	go on boats "	8-0-0	7-0-0	15-0-0					
bo	ounded tollage on Rs.	\\			4. Amount the mont	accounts of t	Carlo Mullion	15 4	
	ge on rafts "			/ b	ntont		· ·		11/2
7. Total	tollage on boats per la-mile Rs.								
8. Total	tollage on rafts per				5. Balance of the	STATE OF THE PARTY	ıd		

^{*} This tollage is on account of tollage on the passenger boat "Zabberwock" for trips made during April.

SOUTH-WESTERN CIRCLE. . MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

	Fig	* - 13	COTAL GOVERNMENT	AND PRIVATE.		PRI	VATE.		
Number of boats or raits.	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	v.	alue.	BKS.
	E part of the same	Up.	Down.	Total.	Rupees.	Tons.	R	upees.	REMA
514 1 24 113 13 32 40 366 42 14 rafts 3 rafts	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos	3,154 3 232 2 203 389 1,078 127 930 c. ft. 83 ,,	550 2 83 1,103 108 197 16 777 483 72 c. ft. 60 ,,	3,704 5 315 1,103 110 400 405 1,855 610 1,002 c. ft. 143 "	2,27,224 1,993 34,805 1,11,210 3,06,100 3,47,770 1,403 10,61,783 8,110 950 29	5 315 1,103 110 400 405	1, 3 3,	27,224 1,993 34,805 11,210 96,100 ,47,770 1,403 ,61,783 8,110 950 29	
1,145 & 17 rafts.	12. Total	5,188 & 1,013 c. ft.	3,319 & 132 c. ft.	8,507 & 1,145 c. ft	21,01,377	{ 8,507 & 1,145 c.ft.	} 21,	,01,377	
,502 & 10 rafts.	13. Total of same month last year.	7,788 & 1,985 e. ft.	3,272 & 240 c. ft	11,060 & 2,225 c. ft.	9,63,353	{11,060 & 2,225 e.ft.	} 9	,63,353	
		Up.	- Down.	Total.					
14. Tota	d number of boats ply- g cargo No.	,740	405	1,145	24+25+		th— 	Rs. 8,492	5
	ll number of boats ply- g passenger No.	530	728	1,258	Total toll month las	lage of s t year	ame	9,267	3
15½. Dit	to empty ,,	262	663	925				luga.	DESK!
	l registered tonnage,	11,040	7,320	18,360	Ме	emorandum o	f Tole	lage.	
	l registered tonnage, ssenger Tons	3,782	4,239	7,971		entre de		year after	
174. Dit	tto empty ,,	1,652	3,353	5,005				Rs.	Δ.
18. Ton-	-mileage	272,479	248,431	520,910		not recov			
19. Esti	mated value of cargo Rs.	12,93,671	8,06,727	21,00,398	THE REAL PROPERTY OF THE PARTY	e 1st of	the	6,738	
20. Nur	mber of passengers	5,793	16,421	22,214	2. Tollage	per month		8,492	5
21. Raf	ts, bamboos C. ft.	83	60	143					
22. Do	bullahs ,,	930	72	1,002	3.	Total		15,231	2
23. Esti	mated value of rafts Rs.	825	154	979					
24. Toll	age on boats "	4,725-10-3	3,740-8-3	8,466-2-6					
	apounded tollage on Rs.	*			4. Amount		into		
26. Toll	age on rafts ,,	25-4-6	0-14-0	26-2-6	treasury month	y during	the	8,014	13
	al tollage on boats per n-mile Pie			0-0-3					
	al tollage on rafts per 00 cubic feet Rs.			2-4-6	5. Balance of the r	due at the	end	7,216	5

HIDGELLEE TIDAL CANAL.

Length of Canal open, 29 miles.

		The tale of the second	COTAL GOVERNMEN	T AND PRIVATE.		Parv.	ATE.	
imber of	DESCRIPTION.	Commission of the	Quantity-Tons.		Value.	Quantity.	Value.	IRKS.
		Up,	Down.	Total.	Rupees.	Tons.	Rupees.	REMARKS
145	1. Grain 2. Cotton	876		876	33,893	876	33,893	
1	3. Oilseeds		A		50		50	
21	4. Salt		153	153	15,797	153	15,797	
	5. Piece-goods 6. Metal				13744			1000
6	7. Building materials	1	14	15	184	15	184	
347	8. Miscellaneous	7	143	150	20,533†	150	20,483	1100
5	9. Fuel	1	30	31	226	31	226	
rafts	10. Timber 11. Bamboos	25 c. ft.	83 c. ft. 275 ,,	83 e. ft. 300	67 15	83 c. ft.	67 15	
"		20 0.10	2.0 "	300 "		300 ,,	10	
525 &		(885 &	340 &	1,225 &)		1 995 &		
rafts.	12. Total	25 c ft.	358 c. ft.	383 c. ft.	70,765 {	1,225 & 383 c. ft.	} 70,715	
224 & rafts.	13. Total of same month last year.	3,968	1,316 & 96 c. ft.	5,284 & }	3,35,642 {	5,248 & 96 c. ft.	8,35,392	
		Up.	Down.					
m .	1 -1 1 1 1 1 1 1 1	Cp.	Down.	Total.	m 4.1 4.11		Rs.	Λ.
	l number of boats ply- cargo No.	180	345	525	Total tollage 24 + 25	re of month	1,509	13
	l number of boats ply- passenger No.	16	16	32	Total tolla month last	nge of sa year	me 5,389	1
m.								
car	l registered tonnage, go Tons	1,879	2,545	4,424	76			
Tota		1,879	2,545	4,424 354	Me	norandum of		
Total Pas	go Tons la registered tonnage,				Mer	norandum qf		
Total pas	go Tons l registered tonnage, ssenger Tons	124	230	354			Tollage.	
Total pas Ton-	registered tonnage, ssenger Tons mileage	124 35,941	230 49,854	354 85,795	1. Balance on th	not recover	Tollage. Rs.	A. 3
Tota Pas Ton- Estir Num	registered tonnage, seenger Tons mileage mated value of cargo Rs.	124 35,941 34,267	230 49,854 36,416	354 85,795 70,683	1. Balance on the month	not recover	Tollage. Rs. red he 1,153	A. 1
Tota pas Ton- Estir Num	registered tonnage, seenger Tons mileage mated value of cargo Rs. ber of passengers	124 35,941 34,267 168	230 49,854 36,416 931	354 85,795 70,683 1,099	1. Balance on th	not recover	Rs.	A. 1
Tota pas Ton- Estir Num Rafts Do.	registered tonnage, seenger Tons mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft.	124 35,941 34,267 168 25	230 49,854 36,416 931 275	354 85,795 70,683 1,099 300	1. Balance on the month 2. Tollage	not recover e 1st of t	Rs. 1,153 1,509	8 13
Tota pas Ton- Estir Num Rafts Do. Estin	registered tonnage, seenger Tons mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,,	124 35,941 34,267 168 25	230 49,854 36,416 931 275 83	354 85,795 70,683 1,099 300 83	1. Balance on the month	not recover e 1st of t	Tollage. Rs. red he 1,153	8 13
Tota pas Ton- Estir Num Rafts Do. Estin Tolla	registered tonnage, seenger Tons mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,, nated value of rafts Rs. ege on boats ,, pounded tollage on	124 35,941 34,267 168 25	230 49,854 36,416 931 275 83 79	354 85,795 70,683 1,099 300 83 82	 Balance on the month Tollage To Amount 	not recover e 1st of t per month tal	Rs. red he 1,153 1,509 2,663	8 13
Total pass Ton- Estir Num Rafts Do. Estin Tolla Comp boa	registered tonnage, seenger Tons mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,, nated value of rafts Rs. ege on boats ,, pounded tollage on	124 35,941 34,267 168 25	230 49,854 36,416 931 275 83 79	354 85,795 70,683 1,099 300 83 82 1,506-13-8	 Balance on the month Tollage To Amount 	not recover e 1st of the per month tal paid in the y during the	Rs. red he 1,153 1,509 2,663	8 13 5
Total pass Ton-Estir Num Rafts Do. Estin Tolla Compboa Tolla Total	registered tonnage, seenger Tons mileage mated value of cargo Rs. ber of passengers s, bamboos C. ft. , bullahs ,, nated value of rafts Rs. age on boats ,, pounded tollage on Rs.	124 35,941 34,267 168 25 3 628-7-6	230 49,854 36,416 931 275 83 79 878-5-9	354 85,795 70,683 1,099 300 83 82 1,506-13-8	 Balance on the month Tollage To Amount treasur 	not recover e 1st of the per month tal paid in the y during the	Rs. 1,153 1,509 2,663	8 13 5

^{* 10} maunds only. | † 10 maunds for Government work.

SONE CIRCLE. PATNA CANAL SYSTEM.

LENGTH OF CANAL OPEN, 864 MILES.

COMPANY OF THE PARTY OF		T	OTAL GOVERNMENT A	PRIVA				
Number of boats or rafts.	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	Value.	-
or raits.		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	1
		1		1	82	1	82	
1	1. Grain 2. Cotton			(F)				
•••	0 07 1			7-11				
•••	4 0 14	25		25	2,800	25	2,800	
***	5. Piece-goods	5		5	7,500	5	7,500	
**	6. Metal							
12	7. Building materials	13	41	54	448	13	180	
2	8. Miscellaneous	12	1	13	1,880	13	1,880	
ĩ	9. Fuel		2	2	15	2	15	
	10. Timber By raft	A	37	37	325	37	325	
	By boat		16	16	775	16	775	
4	11. Bamboos By boat raft		6	6	95	6	95	
	-							9
00		56	103	159	13,920	118	13,652	
20	12. Total		100	100	10,020			
210	13. Total of same month last year	627	4,406	5,033	2,91,683	5,000	2,90,378	3
	English College	Up.	Down.	Total,		E. Faller	R	s.
m tol	hants ply-	ar as of the			Total tolla	ge of month		W.
ing	number of boats ply- cargo No.	9	11	20	24 + 25		20	00
Total	number of boats ply-						870	
ing	passenger No.	2		2	H S	and a little clinic		
51. Ditt	o empty boats ,,	13	14	27	Total toll		me	
e Motel	registered tonnage,		A PERSONAL SAME	STREET, STREET, MAN	month las		4,24	14
LOPET	Photstered connago,	41.0	-0	the second second second second		100	A SECURITION OF THE PARTY OF TH	
carg		78	83	156				
carg	go Tons	73	83	156				
carg	Tons registered tonnage,	73	83	156 5				THE PERSON NAMED IN
carg	go Tons	5	·	5		morandum q		The state of the s
7. Total pass	Tons registered tonnage,		83 * 63					THE PERSON NAMED IN
7. Total pass	registered tonnage, senger Tons to empty boats ,,	5	·	5			f Tollage.	ls.
7. Total pass 71. Ditt	registered tonnage, senger Tons to empty boats ,,	5 40	* 63	5 103	Me	emorandum o	of Tollage.	ls.
7. Total pass 7½. Ditt 8. Ton-1	registered tonnage, senger Tons to empty boats ,, mileage mated value of cargo Rs.	40 4,572	63 2,670	5 103 7,212	Me	emorandum o	of Tollage.	数と四
7. Total pass 7½. Ditt 8. Ton-1 9. Estin	registered tonnage, senger Tons to empty boats ,, mileage and the registered tonnage, senger Tons to empty boats ,, and the registered tonnage, senger Tons to empty boats ,, and the registered tonnage, senger tonnage,	5 40 4,572 18,187 117	63 2,670	5 103 7,212 13,500	1. Balance on the mont	emorandum of not recover he 1st of h	of Tollage.	39
7. Total pass 7. Ditt 8. Ton-1 9. Estim 10. Num 11. Raft	registered tonnage, senger Tons to empty boats ,, mileage aber of passengers s, bamboos C. ft.	5 40 4,572 18,187 117	63 2,670 313 975	5 103 7,242 13,500 117 975	1. Balance on the mont	emorandum o	of Tollage. Rered the 63	
7. Total pass 7½. Ditt 8. Ton-1 9. Estin 20. Num 21. Rafta	registered tonnage, senger Tons to empty boats ,, mileage aber of passengers s, bamboos C. ft. , bullahs ,,	5 40 4,572 18,187 117	63 2,670 313 975 2,750	5 103 7,242 13,500 117 975 2,750	1. Balance on the mont. 2. Tollage	emorandum of not recover he 1st of h	of Tollage. Rered the 63	39
7. Total pass 7. Ditt 8. Ton-1 9. Estin 10. Num 11. Raft 12. Do., 13. Estir	registered tonnage, senger Tons to empty boats ,, mileage and the of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs.	5 40 4,572 18,187 117 	63 2,670 313 975 2,750 420	5 103 7,242 13,500 117 975 2,750 420	1. Balance on the mont	emorandum of not recover he 1st of h	of Tollage. Rered the 63	39
7. Total pass 7. Ditt 17½. Ditt 18. Ton-1 19. Estin 20. Num 21. Raft 22. Do., 23. Estir	registered tonnage, senger Tons to empty boats ,, mileage aber of passengers s, bamboos C. ft. bullahs ,, mated value of rafts Rs. age on boats ,,	5 40 4,572 18,187 117	63 2,670 313 975 2,750	5 103 7,242 13,500 117 975 2,750	1. Balance on the mont. 2. Tollage	e not recove he 1st of h	of Tollage. Rered the 63	39
7. Total pass 7. Ditt 8. Ton-1 9. Estin 10. Num 11. Raft 12. Do., 13. Estir 14. Tolls 15. Com	registered tonnage, senger Tons to empty boats ,, mileage aber of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on	5 40 4,572 18,187 117 15-5-5	63 2,670 313 975 2,750 420 14-13-3	5 103 7,242 13,500 117 975 2,750 420 30-2-8	1. Balance on the mont. 2. Tollage	e not recove he 1st of h	of Tollage. Rered the 63	39
7. Total pass 7. Ditt 8. Ton-1 9. Estin 10. Num 11. Raft 12. Do., 13. Estir 14. Tolls 15. Comp bos	registered tonnage, senger Tons to empty boats ,, mileage mated value of cargo Rs. ther of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on the Rs.	5 40 4,572 18,187 117 	975 2,750 420 14-13-3	5 103 7,242 13,500 117 975 2,750 420 30-2-8	1. Balance on the mont 2. Tollage 3.	emorandum of the not recover the 1st of the per month	of Tollage. Rered the 63 20	39
7. Total pass 7½. Ditt 8. Ton-1 9. Estin 10. Num 11. Raft 12. Do., 123. Estir 124. Tolls 125. Comp bos	registered tonnage, senger Tons to empty boats ,, mileage aber of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on	5 40 4,572 18,187 117 15-5-5	63 2,670 313 975 2,750 420 14-13-3	5 103 7,242 13,500 117 975 2,750 420 30-2-8	1. Balance on the mont 2. Tollage 3.	e not recove he 1st of h Total t credited accounts of	of Tollage. Rered the 63 20	39
7. Total pass 7. Total pass 7. Ditt 8. Ton-1 9. Estim 19. Estim 20. Num 21. Raft 22. Do., 23. Estir 24. Tolls 25. Comp bos 26. Tolls 27. Total	registered tonnage, senger Tons to empty boats ,, mileage mated value of cargo Rs. ther of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on the state of tollage on the state of tollage on boats per state of tollage on boats per state of tollage on	5 40 4,572 18,187 117 15-5-5	975 2,750 420 14-13-3	5 103 7,242 13,500 117 975 2,750 420 30-2-8 150-0-0 20-7-3	1. Balance on the mont 2. Tollage 3.	e not recove he 1st of h Total t credited accounts of	of Tollage. Rered the 65 20 85	39
7. Total pass 7. Total pass 7. Ditt 8. Ton-1 9. Estim 19. Estim 20. Num 21. Raft 22. Do., 23. Estir 24. Tolls 25. Comp bos 26. Tolls 27. Total	registered tonnage, senger Tons to empty boats ,, mileage mated value of cargo Rs. ther of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on ats Rs. age on rafts ,, age on rafts ,,	5 40 4,572 18,187 117 15-5-5	975 2,750 420 14-13-3	5 103 7,242 13,500 117 975 2,750 420 30-2-8	1. Balance on the mont 2. Tollage 3.	e not recove he 1st of h Total t credited accounts of	of Tollage. Rered the 65 20 85	39
carg carg 7. Total pass 17½. Ditt 18. Ton-1 19. Estin 20. Num 21. Raft 22. Do., 23. Estir 24. Tolls 25. Comp box 26. Tolls 27. Tota to	registered tonnage, senger Tons to empty boats ,, mileage mated value of cargo Rs. ther of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on the state of the senger on the senger of the senger on the senger of the senger on the senger of the senger o	5 40 4,572 18,187 117 15-5-5	975 2,750 420 14-13-3	5 103 7,242 13,500 117 975 2,750 420 30-2-8 150-0-0 20-7-3	1. Balance on the mont 2. Tollage 3.	e not recove he 1st of h Total t credited accounts of h	of Tollage. Rered the 63 20 85	39
carg range	registered tonnage, senger Tons to empty boats ,, mileage mated value of cargo Rs. ther of passengers s, bamboos C. ft. , bullahs ,, mated value of rafts Rs. age on boats ,, pounded tollage on the state of tollage on boats ,, age on rafts ,, age	5 40 4,572 18,187 117 15-5-5	975 2,750 420 14-13-3	5 103 7,242 13,500 117 975 2,750 420 30-2-8 150-0-0 20-7-3	1. Balance on the mont. 2. Tollage 3. 4. Amounthe mont.	e not recove he 1st of h Total t credited accounts of	of Tollage. Rered the 63 20 85	39

ARRAH CANAL SYSTEM. LENGTH OF CANAL OPEN, 65 MILES.

			TOTAL GOVERNMEN	T AND PRIVATE.	1	PRIVA	TR.			
fumber of boats or rafts.	DESCRIPTION.	R. L. P. J. Mari	Quantity-Tons.	A SALITERAS SALITA Francis A SALITA	Value.	Quantity.	Value.	RES.		
		Up.	Down.	Total,	Rupees.	Tons,	Rupees.	REMARES.		
34 32 36 3	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods	10 43 378 8	398 490	403 43 490 378 8	28,732 54,250 52,550 41,870 7,400	403 43 490 378	28,732 54,250 52,550 41,870			
 10 68 2 Rafts	6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber Bullahs	114 18	78 388 1,279	78 502 18 	1,308 4,430 28,558 233	8 8 71 314 18 	7,400 1,308 4,424 26,682 233 8,026			
	11. Bamboos Firewood		904 101	904 101	8,337 177	904	8,337 177			
185 71	12. Total 13. Total of same month last year.	579 251	3,633 2,663	4,212 2,914	2,85,871	4,017 2,819	2,33,989 97,462			
		Up.	Down.	Total.	1	Later than the	Rs	Rs. A. P.		
ing	number of boats ply- cargo No.	60	125	185	Total tollag 24 + 25	e of month-	2,381	11 3		
ing Total bos		107	6	11 112	Total tolla month last		1,476	5 0		
Total car Total pas		985 121	2,151 108	3,136 229	Ме	morandum of	Tollage.			
emp		397 72,339	19	416 184,315		ghearain bus 1974	Rs.	A. P.		
出版影響	ated value of cargo Rs.	1,15,855 1,329	1,03,476 1,242	2,19,331 2,571	1. Balance on the month	1st of th	е	1 3		
Rafts,	bamboos C.ft.	N	1,35,720	1,35,720	2. Tollage p	er month .	2,381	11 3		
Do.,	bullahs "		95,970	95,970						
Do.,	firewood "		7,580	7,580						
Estim	ated value of rafts Rs.		16,540	16,540	3.	Total .	2,521	12 6		
Tollage on boats ,,		411-11-9	924-7-3	1,336-3-0	4. Amount		n			
boa		228-0-0	228-0-0	456-0-0	the ac month	counts of th	2,430	15 3		
S000000	ge on rafts ,,		589-8-3	589-8-3						
Total	tollage on boats per Rs. tollage on rafts per Coubic feet Rs.			0-0-1-86	5. Balance d of the n		00.1	3 3		

BUXAR CANAL SYSTEM. LENGTH OF CANAL OPEN, 67 MILES.

			TOTAL GOVERNMENT	Pri	VATE.			
Number of boats or rafts.	DESCRIPTION.		Quantity-Tons.		Value,	Quantity,	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
40	1. Grain	114	502	616	45,238	616	45,238	1
	2. Cotton						and the same	
10	3. Oilseeds		216	216	23,000	216	23,000	
•••	4. Salt	1		1	174	1	174	1
•••	5. Piece-goods 6. Metal	1 3	2	1 5	2,760 11,260	1 5	2,760 11,260	1
2	7. Building materials		26	26	968		11,200	
8	8. Miscellaneous	39	87	126	12,388	126	12,388	1
7	9. Fuel		84	84	1,023	84	1,023	1
Rafts }	10. Timber	1	542	542	3,843	542	3,843	1
iditis (11. Bamboos		443	443	3,403	443	3,403	
67	12. Total	158	1,902	2,060	1,04,057	2,034	1,03,089	-
								-
12	13. Total of same month last year.	72	947	1,019	26,272	1,013	26,035	1
		Up.	Down.	Total.			0.04	A STATE OF
4 Matel	number of boats ply-		THE RESERVE			district the second	Rs.	No.
1. Total	cargo No.	11	56	67				
5. Total	number of boats ply-	- W. H.	Translation & Crass	manual trees	Total tollag	ge of mont	h—	
ing	passenger No.	11	9	20	24 + 25 -	+ 26	970	ii.
51. Ditto	empty boats ,,	56	7	63				
e Matal	registered tonnage,		The State of the S					
car	The state of the s	206	2,189	2,395	Total tolla	ige of si	ame	
					month last		532	
	registered tonnage,	000	243	466	Dies Liebble			
Pas	senger Tons	223	240	400	neighbor and a second			100
74. Ditte	empty "	221	26	247	1.00			
		9,814	27,596	37,410	M	lemorandum	of Tollage.	
8. Ton-n							A CONTRACTOR	10
9. Estim	nated value of cargo Rs.	20,986	75,825	96,811			Rs.	The state of
0. Numl	ber of passengers	598	6501	1,2481	I. Balance		ered the	
1. Rafts	, bamboos C. ft.		66,456	66,456	mont		52	2
2. Do.,	bullahs "		40,664	40,664	2 Toller		Hart St.	
3: Estin	nated value of rafts Rs.		7,246	7,246	2. Tollage	per month	970	The state of the s
4. Tolla	ge on boats "	159-10-3	344-7-6	504-1.9	9			
6 C	ounded tollage on				3.	Total	1,023	
5. Comp	ounded tollage on Rs.	107-0-0	107-0-0	214-0-0				
	100	10,-3-0	101-0-0	211-0-0	4. Amount	credited	in	
Do	ge on rafts ,,		252-9-6	252-9-6	the ac	ecounts of	the	
			1000 125	1	month		986	
6. Tolla		NAME AND POST OF PARTY OF PART						
26. Tollag	tollage on boats per n-mile Rs.	···· 🙀	,	0-0-3-6				10

ABSTRACT FOR THE MONTH OF MAY 1899 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	TRAFFIC,	1890-91.	TRAPPIC,		
CANAL.	During the month.	To end of the month,	During the mouth.	To end of the month.	REMARKS.
Orissa Circle.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Taldunda Canal System Kendrapara Canal System High Level, Range I Ditto ,, II Ditto ,, III Jajepore Canal	39 15 5 163 4 6 135 4 6 15 0 0	806 6 2 7,753 0 5 1,233 5 0 719 4 0 504 14 9 22 7 10	82 9 4	1,319 4 8 6,093 14 4 1,020 9 0 837 3 9 407 7 9 14 12 4	
Total Orissa Circle South-Western Circle.	353 8 5	11,039 6 2	82 9 4	9,693 3 5	
Midnapore Canal Hidgellee Tidal Canal	8,492 5 0 1,509 13 0	19,397 3 3 3,210 5 0	9,267 3 9 5,389 1 0	22,502 14 3 10,990 1 3	
Total South-Western Circle	10,002 2 0	22,607 8 3	14,656 4 9	33,492 15 6	
Sone Circle.					
Patna Canal System Arrah ditto Buxar ditto	200 9 11 2,381 11 8 970 11 3	4,025 15 2 4,459 0 6 2,167 9 9	4,244 14 9 1,476 5 9 532 5 9	4,996 2 3 3,737 11 3 1,605 12 0	
Total Sone Circle	3,553 0 5	10,652 9 5	6,253 10 3	10,339 9 6	
GRAND TOTAL	13,908 10 10	44,299 7 10	20,992 8 4	53,525 12 5	

GOVERNMENT TRANSPORT SERVICE.

			TRAPPIC,	1890-91.			Trappic, 1889-90.						
CANAL	During the month.			To end of the month.			D	uring th	e month.	To end of the month.			
	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Goods,	Total receipts.	Passen- gers.	Goods.	Total receipts.	Passen- gers.	Cloods.	Total receipts.	
Orissa Circle.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. P.	No.	Mds.	Rs. A. 1	
Righ Level				1,307	2,816	1,443 14 5	45	218	70 1 6	900	2,598	1,151 2	
Total Orissa Circle		/	~~,o,, ^{[4}]	1,307	2,816	1,443 14 5	45	218	70 1 6	900	2,598	1,151 2	

TOTAL NAVIGATION RECEIPTS.

CABAL.		EARNINGS, 1890-91.						EARNINGS, 1889-90.						REMARKS.
		During the month.			To end of the month.			During the month,			To end of the month.			REMARKS.
		Rs.	۸.	P.	Rs.	Δ.	P.	Rs.	۸.	Р.	Rs.	Α.	P.	
Orissa Canals Midnapore Canal Hidgellee Tidal Canal Sone Canals		358 8,492 1,509 3,553	5 13	5 0 0 5	12,483 19,397 3,210 10,652	1000	7 3 0 5	152 9,267 5,389 6,253	3	9	10,844 22,502 10,990 10,339	5 14 1 9	9 3 3 6	
Total		13,908	10	10	45,743	6	3	21,062	9	10	54,676	14	9	

CALCUTTA,

The 22nd July 1890.

G. A. G. Shawe, Under-Secy. to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 19th July 1890, as compared with the corresponding week of the previous year.

es and markly			DING SATURI H JULY 1890.	DAY, THE	WEEK ENDING SATURDAY, THE 20TH JULY 1889.				
NATURE	OF CARGO.	Number of boats.	Weight of cargo.	Tollage.	Number of boats,	Weight of cargo.	Tollage.		
		No.	Mds.	Rs.	No.	Mds.	Rs.		
Rice and paddy Jute Firewood Other articles	=	 396 10 132 861	68,850 3,350 72,425 2,53,150	1,058 63 1,121 3,409	362 15 116 817	65,825 8,000 55,200 1,93,775	1,040 146 809 2,873		
	Total	 1,399	3,97,775	5,651	1,310	3,22,800	4,868		

EAST INDIAN BAILWAY.

Statement of Goods Traffic in Staples carried during the five weeks and 2 days ended 30th June 1890, as compared with the same period of 1889.

		18	90.	18	89.	Incre	onse.	Dear	MISO.
	STAPLES.	Weight.	Freight.	Weight,	Freight.	Weight.	Freight.	Weight.	Freight
		Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Ra
	Horses, ponies, and mules	No. 97	846 865	No. 32	303	No. 65	543 561	No	******
WIMALS, LIVING	Sheep and goats	,, 5,094	3,977	,, 4,731	3,760	1 303	217		*****
orax	COther kinds	1,099	605	382	267	717	338	** *****	*****
anes and ratans		1	1	3	2		******	9	******
hinese and Japan	ese ware	10	6	15	4	*****	2	5	
oal and coke, up		9,21,525 27,16,429	3,40,909	8,95,255 28,10,599	2,93,076 3,70,915	26,270	******	94,170	78,7 30,0
Ditto, dow		42,313	38,997	35,753	34,977	6,560	4,020	542	*****
	Twist and yarn (European) Ditta (Indian)	8,146 16,049	10,248 9,001	8,688 14,906	10,686 8,728	1,143	273		4
PACTURED.	Piece-goods (European)	95,335	1,06,300	1,05,423	1,24,428 9,465	278		10,088	18,1
	Asafœtida	16,482	8,542 22	16,154 63	38	OTELER		92	1265
RUGS AND ME-	Other sorts, not intoxicating	1,022 2,553	2,110 1,337	1,844 2,563	2,867 1.449	78		10	40.00
DICINES,	Intoxicating drugs (other than opium, i.e., arsenic, bhang,	2,000	4,007	2,000		SALES I			
	ganja, and charas, &c.)	125	109	260	349			135	F Stary
	Indigo		*****	******	*****		******	******	1
PIALS.	Safilower	853 13,151	678 8,846	1,097	698 4,435	2,343	4,411	244	
	Other kinds	8,270	3,275	8,844	8,236	******	39	74	******
arthen ware and	orcelain	14,817	1,132	11,433	1,073 4,631	3,384	59	******	2,
IRROUS PRO-	Do., manufactured (gunny-	85,361	48,057	1,14,531	63,384			29,170	15,
DUCTE.	bags and cloths). Other fibres, raw	13,549	3,182	4,685	1,558	8,864	1,624	*****	
ATTENDED TO STATE	Ditto, manufactured	2,753	791	2,482	803	271	651	658	-
BUITS & NUTS	Cocoanuts	4,106	3,778 29,516	43,532	8,127 28,617	143	899	003	*****
	Wheat	4,83,024	1,25,205	8,32,444	2,56,985	******		3,49,420 1,30,390	1,31,
Derrana	Gram and pulses Rice, husked	2,70,590 3,40,763	75,233 51,504	5,49,273	1,23,403 1,16,254	******	******	2,08,510	64
BAIN & PULSES	Do., unhusked	61,859	13,273	89,329	16,053	******		27,170	22
vernment stores	Other rain and spring crops	1,35,042 17,279	26,049 27,748	2,03,172 16,809	48,609 32,054	470	******	68,130	4
ams and resins		9,169 31,544	5,252	9,937	5,968 17,594		*****	768 786	1
IDES & SKINS	Hides of cattle Skins of sheep, goats, and	15,205	16,543 7,028	32,330 16,354	7,565	******	******	1,161	
IDES & GALRS	small animals.		1,030	1,257	619	287	411		
orns	Lac, dye	1,544	58	75	40	122	13	*****	
AC	Do., shell	10,601 17,936	6,420	0,524 13,524	4,651 4,255	4,077	1,769	******	
	Do., stick and other kinds Leather, unmanufactured	1,314	2,720	1,432	2,995	4,412	******	118	
EATHER	Ditto, manufactured	1,396 15,161	1,686 14,848	1,196	1,653 13,866	200 892	982 982	******	******
AND THE RESERVE THE PARTY OF TH		658	317	460	267	198	50	******	******
inerals		1,54,020 21,891	24,743 13,842	2,00,077	29,240 25,603			46,057 6,531	11,
MANUFACTURES	Brass and copper	1,19,882	71,961	98,571	58,245	21,311	13,716	******	******
P.	Other metals	6,266 57,460	5,166 24,088	65,774	5,787 20,994	1,886	******	644	2,
THE CANADA STATE OF THE PARTY O		4,027	3,787	3,631	3,082	396	*****	*****	
ints and colours		3,149 28,275	2,698 19,625	2,540	2,504 12,681	5,091	0,944	******	******
ROVIBIONS	Ghee	8,570	8.905	8,689	7,816		1,089	119	""ï,
ilway materials,	Construction Account	2,86,350 2,51,471	4,560 1,81,103	3,69,526 2,32,024	5,886 1,22,401	19,447	8,702	83,176	*****
A STATE OF THE PARTY OF THE PAR		8,75,204	1,79,783 29,298	7,92,28s 57,884	1,49,113 26,742	82,916	30,670 2,551		
LTPETER, &C.	Saltpetre	26,784	7,270	25,038	6,367	6,718 1,746	903	*****	297/99
	Linseed	8,07,390	2,37,997	12,67,650	5,82,857	******	******	4,60,260	1,44,
OIL-	Mustard and rape	1,60,114 4,356	38,023 1,176	2,39,184 5,326	55,323 1,106	*****	70	970	*****
	Other oilseeds	2,10,698 9,116	59,257 2,495	2,99,983 8,956	79,417 2,715	160	******	89,240	20,
OTHER 5	Indigo seed	Therete	*****	******	******	100	***	******	
C REEDS. ?	Other kinds	59,307 1,438	24,472 1,718	73,787 1,477	31,332 1,239		******	14,430	6,
LK }	Silk, raw bo., manufactured (European)	11000		*****	*****		- m.		******
	Do., ditto (Indian)	326 12,185	264 8,568	304 11,247	9,322	938	35	*****	
one and marble.		4,22,978	45,513	2,39,941	28,753	1,83,037	16,760	***	10000
	Sugar, refined	1,78,655	35,989 18,769	2,55,920 1,00,484	54,932 14,037	805	4,732	89,265	18,
	Tou Indian	4,023	3,274	4,871	5,647		******	848	2,
A {	Do., Foreign	1,39,450	60,606	1,54,404	70,271	2	******	14,954	9,
bacco	Timber	34,651	5,526	39,354	4,952	3,000	574	4,703	*****
00D	Firewood	81,880 2,825	3,045	51,810 1,927	3,839 1,716	30,020 898	1,883 1,329	******	******
	Do., manufactured (Euro-	128	101		******	123	101	*****	*****
100	pean).	1,047	661	1,212	784			165	
Ser product A	Wool, manufactured (Indian) Shawls	******	*****					*****	******
other articles of		2,99,871 82,366	1,56,575 22,895	3,76,520 29,337	1,64,244	58,029	16,229	76,649	7,6
nes		47,957	28,705	42,026	18,388	5,931	5,317	*****	*****
rustoes		99,87,515	25,03,003	1,13,93,666	30,46,591	4,75,837	1,30,604	18,81,988	6,74,1
	Total	THE STREET STREET	##JUU_UU	THE PROPERTY OF THE PARTY OF TH	The second second second	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	The second second second	and the same of the same of	

General remarks on the fluctuation of principal staples carried over the East Indian Railway during five weeks and two days ended 30th June 1890.

INCREASES.

Cotton.—This is a continuation of the increase reported throughout the half year; the increase was chiefly in despatches from the Bombay, Baroda and Central India Ralway eid Agra to Calcutta.

Iron.—Consisted chiefly of iron pipes for Segowlie on the Tirhoot State Railway, and for Alla abad and Agra and machinery for Delhi,

Ghee .- The increase occurred in long distance despatches from stations on the Tundla district to Howrah for local

consumption.

Railway material, Foreign.—Chiefly in despatches from Howrah to Delhi, Umballa and Umaria.

Salt.—This increase was chiefly in despatches of imported salt from Howrah.

Stone and marble.—Despatches of road metal from Pakur to Chitpore caused the increase recorded under this head.

Bones.—Chiefly in despatches from Mokameh Ghât, viá Digha Ghât and viá Mogulserai, to Bally and Chitpore.

Potatoes.—This increase was in despatches from Patna and Dinapore to Howrah for local consumption.

DECKEASES.

Coal and coke.—There was an increase in the weight of upwards traffic attended with a decrease in carnings, and this was chiefly in despatches for the Oudh and Robilkhund and the North-Western Railways. The falling off in the downward traffic was due to want of tonnage for export to coast ports and to smaller demand by Eastern Bengal State Railway stations.

Piece-goods, European.—Chiefly in despatches from Howrah and Bombay vid Jubbulpore, due to the dull state in the trade

generally

Gunny bags.—Due to the dull state of the markets for linsed and wheat.

Wheat.—The falling off was due to there being no demand for export to Europe.

Gram and pulses.—Chiefly in despatches from stations on the "D" district owing to the crops having been nearly destroyed by severe frosts inst winter.

Rice (husked and unhusked).—As reported in previous months, the falling off was entirely in upwards rice traffic.

Other rain and spring crops.—Due to large despatches last year of cheap food-grains to stations in the North-West Provinces and on the Gya and Tirnoot State Railways.

Brass and copper.—Chiefly in despatches from Howrah to Mirzapur and other stations owing to high prices.

Seeds.—The decrease was chiefly in linseed to Howrah for export owing to large stocks being held back in up-country markets for better prices.

for better prices.

Tobacco.—Chiefly in despatches from Mokameh Ghât, Barb, Patna and stations on the Tirhoot State Railway to Cawnpore and Jubbulpore owing to the market being dull.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 18th July 1890.

N. St. L. Carter, Traffic Manager,

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for the first 12 days of July 1890, on 1,5251 miles open.

	COACHIN	G TRAFFIC.		FAND MINREAL	Other earnings			TRAIN-MILE	B RUN.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Total carpings.	Coaching.	Merchan- dise.	Total.
		Rs. A. P.	MDs. s.	Rs. A. P.	Rs. A. P.	Rs, A. P.			
Iotal traffic for the first 12 days of July	*405,214	*3,94,158 13 0 258 6 1	34,39,786 0	7,54,940 7 0 494 14 2	32,052 10 0 21 0 2	11,81,160 14 0 774 4 5	112,7572	142,3754	255,138
Total for the period	408,244	3,94,158 15 6	34,39,786 0	7,54,949 7 0	32,052 10 0	11,81,160 14 0	112,7570		
COMPARISON.						11,01,100 14 10		142,3751	255,138
days of previous year er mile of railway correspond-	550.841	5,00,303 3 6	43,29,272 10	9,59,189 5 6	28,977 1 10	14,88,469 10 10	128,458	182,245	310,70
otal to corresponding date of previous year	550,841	327 15 4 5,00,363 3 6	43,29,272 10	628 12 4 9,59,189 5 6	18 15 11 28,977 1 10	975 11 7 14,88,469 10 10	128,458	182,245	310,70

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

	TS FOR THE			S OF JULY 189			PRIL 1889 TO 13: JULY 1889.			PRIL 1890 TO 12 JULY 1890.					
Mean mileage worked.	Receipts.		Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked,	Total receipts.	Per mile worked per week,	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890,	decrease it		
1,525\$	Rs.	Rs 976	1,525}	Rs. 11,81,161	Rs.	1,5251	Ra. 1,35,15,220	Rs.	1,525%	Rs. 1,23,20,212	Rs. 588	Rs.	Rs.		

crease as compared with the corresponding period of 1889, which embraced 13 days as against 12, besides which the figures file due to an eclipse of the moon; hence the apparent falling off.

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for the first 12 days of July 1890, on 573 miles open.

	COACHIN	G TRAPPIC.	MERCHANDISE TRAF	AND MINERAL PIC.	Other earnings		TRAFFIC '	TRAIN-MILE	s BUK.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Totalearnings.	Coaching.	Merchan- dise.	Total.
fotal traffic for the first 12 days of July	17,396 304	Rs. A. P. 8,416 14 0 147 2 5 8,416 14 0	73,391 10 1,283 10 73,391 10	8s. A. P. 4,369 9 0 76 6 3	8s. A. P. 69 4 0 1 3 4 69 4 0	Rs. A. F. 12,855 11 0 224 12 0 12,855 11 0	1,670	1,206	2,876
COMPASISON. Istal for corresponding first 13 days of previous year ver mile of railway correspond- ing period of previous year Istal to corresponding date of previous year	19,988} 349} 19,988}	10,504 10 8 181 14 5 10,404 10 8	1,20,270 0 2,102 30 1,20,270 0	5,520 11 0 96 8 3 5,520 11 0	84 9 6 1 7 8 84 9 6	16,009 15 2 279 14 4 16,009 15 2	1,745	1,300	3,045

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, duted 23rd July 1883.

KECRIP	TS FOR THE I			TS FOR THE			L RECEIPTS FRO PRIL 1889 TO 13 JULY 1889.			PRIL 1890 TO 12 JULY 1890.		Total	Total
Mean mieage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease in 1890.
57)	Rs. 16,010	Rs. 280	571	Rs. 12,856	Rs. 225	57 <u>1</u>	Rs. 1,30,006	Rs. 152	571	Rs. 1,40,469	Rs. 164	Rs. 10,463	Rs

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the first 12 days of July 1890, on 224 miles open.

	COACHING	TRAPPIC.	MERCHANDISE TRAF	AND MINERAL FIG.	Other earnings	Total	TRAPPIC	TRAIN-MII	ES RUN.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	earnings.	Coaching.	Merchan- dise.	Total.
otal traffic for the first 12 days		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
of July	36,922	8,957 15 0 412 9 8	8,598 0	306 0 0 8 12 1	13 8 0 0 9 8	9,277 7 0 416 15 5	1,545	105	1,650
or previous weeks of half-year					*****		*****		
Total for the period	36,922	8,957 15 0	8,598 0	806 0 0	13 8 0	9,277 7 0	1,545	105	1,650
COMPARISON.						Senar hand			
stal for corresponding first 13 days of previous year	47,353}	11,041 2 5	12,956 10	894 0 0	3 6 0	11,438 8 5	1,814	78	1,892
ing period of previous year		496 3 8		17 11 4	0 2 5	514 1 5			
revious year	47,353}	11,041 2 5	12,956 10	394 0 0	3 6 0	11,438 8 5	1,814	78	1,892

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

DA.	rs of July	FIRST 13 1889.		rs por the i			JULY 1889.			PRIL 1890 TO 19 JULY 1890.		Total	Total
Mean alleage rocked	Beceipia.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week,	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890,	n decrease 1890.
	Rs.	Rs.		Ra.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
223	11,439	514	221	9,277	417	221	94,076	282	221	94,606	283	530	

NALHATI STATE RAILWAY.

Approximate Return of Traffic for last 9 days of June 1890, on 27.25 miles open.

	COACHIN	G TRAFF	10.	MERCHANDIS TR	RE AN		TERA	Otheres	rnin	gs	Tota	s)		TRAPPIC	TRAIN-MIL	NS RUN.
The state of the s	Number of passengers.	Coach		Weight carrie	đ.	Recei	ots.	(estima			earnii	ags.		Coaching.	Merchan- dise.	Total.
Service Company		Rs.	A. P.	MDS.	в.	Rs.	A. P	Rs.	A. 1	P.	Rs.	A. 3	p.		NAME OF STREET	
Total traffic for 9 days Or per mile of railway Por previous 25 weeks of half-	5,150 189	2,000 73	0 0	13,570 498	0	790 29	0 0	30 1	0	0	2,820 163	0		654	396	980
For previous 25 weeks of half-	*84,115	30,898	0 0	2,94,801 (0	17,856	0 0	2,225	0	0	50,979	0	0	12,561	11,225	23,786
Total for 26 weeks	89,265	32,898	0 0	3,08,371	0	18,646	0 0	2,255	0 (0	53,799	0	0	13,215	11,551	24,766
COMPARISON.		Act to the								1		1				
Total for corresponding 8 days of previous year	3,987	1,454	0 0	11,163	0	735	0 0	22	0 1	0	2,211	0	0	581	291	872
ing period of previous year	146	58	0 0	410 (0	27	0 0	1	0 (0	81	0	0		*****	
Total to corresponding date of previous year	89,780	34,034	0 0	2,81,608 (0	17,543	0 0	2,242	0 (0	53,819	0	0	14,383	9,992	a24,375

^{*} Audited up to week ending 17th May 1890. a Corrected as per half-yearly Revenue accounts.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

	PTS POR LAST DD JUNE 1889			PTS FOR LAST OF JUNE 1890			L RECEIPTS FRO PRIL 1889 TO 30 JUNE 1889.			L RECEIPTS FRO PRIL 1890 TO 3 JUNE 1890.		Total	Total
Mean mileage worked.	Receipts.		Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.		Mean mileage worked.		Per mile worked per week.	increase in 1890.	decrease iz
27*25	Rs. 2,211	Rs. 81	27.25	Rs. 2,820	Rs. 103	27:25	Re. 25,579	Rs. 72	27*28	Rs. *25,086	Rs.	Rs.	Rs. 493

^{*} Audited up to week enging 17th May 1890.

TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the last 9 days of June 1890, on 273 miles open.

	COACHIN	G TRAFF	ic.		MERCHANI		AND MI	V H I	LAL	Other en		Ton		1	TRAPPIC	TRAIN-MII	RS RUN.
and the bolt and a	Number of passengers.	Coach			Weight carried,		Recei	pta		(estima		earni			Conching.	Merchan- dise.	Total,
一个现在结准		Rs.	A. 1	r.	Mns.	8.	Bs.	Á.	P.	Rs.	A. P.	Rs.	A. 1	P.			No.
Total traffic for the week Or per mile of railway Por previous 24 weeks of half-	50,325 184	17,544 64	0		1,83,821 673	0	23,206 85	0		2,476	0 0	43,226 153	0		7,827	7,726	15,053
year	1,180,820	4,75,768	0	0	60,96,185	0	6,93,787	0	0	79,602	0 0	12,49,157	0	0	128,522	230,216	358,788
Total for the half year	1,231,145	4,93,312	0	0	62,80,006	0	7,16,993	0	0	82,078	0 0	12,92,383	0	0	135,849	237,942	373,701
CCMPARISON.		, N			2000年	N											No.
Total for corresponding week of previous year	44,757	19,298		89	1,87,560	0	14,880		rac a	4,496	0 0	38,604	0	0	6,007	5,860	f1,867
ing week of previous year Potal to corresponding date of previous year	1,122,989	71 4,23,284	0		687 44,51,556		54 3,97,623	S.	201	1,09,794	0 0	9,80,701	0 (5434	198,160	154,259	282,419

^{*} Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

	TS FOR LAST OP JUNE 1889			PTS FOR LAST OF JUNE 1890			RECEIPTS PROPRIE 1889 TO 300 JUNE 1889.		301	L RECRIPTS PRO II APRIL 1890 T TH JUNE 1890,	0	Total	Total
Mean milesge worked.	Receipts.	Per mile worked,	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked,	Total receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week,	increase in 1890-91.	decrease ir 1890-01.
	lis	Rs.		Ra.	Rs.		Ra.	Re.		Rs.	Rs.	Rs.	Rs.
273	38,604	138	278	43,226	158	278	5,18,321a	146	278	5,93,164	167	74,843	

a Includes figures for supplementary adjustments.



The Calcutta Gazette.

WEDNESDAY, JULY 30, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RESOLUTION ON THE SUBJECT OF THE FOUNDATION AND FUTURE MANAGEMENT OF A NEW LEPER ASYLUM FOR CALCUTTA.

RESOLUTION.

MEDICAL.

Dated Calcutta, the 29th July 1890.

READ-

The Annual Reports of the District Charitable Society for the years 1887, 1888, and 1889.

Read-

A letter, dated 28th June 1890, from the Joint Honorary Secretaries to the Prince Albert Victor Permanent Memorial Fund.

The Leper Asylum of Calcutta was first made over to the District Charitable Society in the year 1831, and with a short interruption has remained under the management of that body ever since. It was originally situated at Balliaghatta, but in 1840 was removed to its present site in Amherst Street, which was granted by Government, and new buildings were erected:—these, with additions and improvements made from time to time, are the premises now in use.

The working of the institution during the last three years is shown in the following table:—

			1887.	1888.	1889.
Number of patients at t	he beginni	ng of	07		
the year		A	87	72	84
Number of new patients		2	51	46	64
Number of re-admissions	四	200	78	72	51
Number discharged			124	90	88
Number died			21	16	38
Total expenditure			Rs. 7,276	Rs.	Rs. 8,975
Total expenditure		***	1,210	8,368	0,010

The number of lepers in the Town and Suburbs, as ascertained by the Census of 1881, is 387, but it seems highly probable that others have escaped enumeration, and that the actual number now existing is largely in excess of these figures. It may, therefore, be said that not more than one-fifth of the ascertained leper population are at any one time in the Asylum. Even with this number

the wards are overcrowded.

The disadvantages of the present site have often been pointed out, and have long been acknowledged. It is in the middle of a crowded urban population, its limits are so circumscribed as to preclude material additions to the existing buildings, while the surrounding lands are so valuable that the quantity required could not be obtained except at enormous cost. Again, its accessibility is such as to afford the lepers very easy means of withdrawing themselves from the care and treatment which it is desirable for their own sake, as well as for their fellowcitizens, that they should receive. The statistics quoted above show how frequent these withdrawals are. In his report for 1888, the medical officer remarked that "a great number of lepers take their discharge when they have improved considerably in health by a longer or shorter stay in the Asylum, but these very same lepers are obliged again to be admitted in a worse condition than when they left, with open and foul sores, and with their health deteriorated." Under these circumstances it is obviously most desirable that the Asylum should be removed to some site, where more ample accommodation can be provided, which shall be at some distance from a dense population, which shall be whole-some and convenient for the unfortunate sufferers, and which at the same time shall not be sufficiently easy of access to tempt them to leave it readily

Hitherto the District Charitable Society has received a grant of Rs. 100 per mensem from the Calcutta Municipality, an annual grant of Rs. 125 from Government for medicines, and the interest, amounting to Rs. 596 a year, of two special Trust Funds. With the exception of the Rs. 1,921 thus obtained, the District Charitable Society has met the expenditure of the asylum from its general funds. In 1889 this excess expenditure amounted to upwards of

Rs. 7,000 per annum.

Excluding the grants of the Government and the Municipality, the assets of the Asylum, apart from any share which might be assigned to it from the general funds, are the endowments, the capital value of which is Rs. 19,500, and the site and buildings which are, the Lieutenant-Governor is informed, worth

Sir Steuart Bayley is satisfied that the whole subject is one which can best be considered by a Committee, the composition of which he proposes shall be as follows:-

The President and two members of the District Charitable Society; The Chairman and two members of the Corporation of Calcutta; Mr. W. J. Simmons on the part of the Health Society; A representative of the Permanent Memorial Fund; Two medical officers to be appointed hereafter.

It is possible that experience may show the necessity of nominating additional members: in this case the Lieutenant-Governor will appoint them.

The appointment of this Committee is in substantial accordance with the wishes of the subscribers to the Permanent Memorial Fund, as expressed by the Joint Honorary Secretaries, who have intimated that the subscriptions in aid of that Fund amount to Rs. 46,328, of which Rs. 20,756 have been realized. This sum, even if only a portion of the balance be collected, will be a material help to the institution which it is proposed now to reform, and Sir Steuart Bayley has observed with satisfaction that the subscribers propose to apply it in this manner rather than to attempt the establishment of an independent

In reply to this communication, which reached him in Darjeeling, the Lieutenant-Governor informed the Joint-Secretaries that he would let them know his views after he had returned to Calcutta and consulted the Local authorities; in the meantime a copy of it was communicated to the Calcutta Corporation and to the District Charitable Society. His Honour now finds that no further preliminary references need be made, since there is ample evidence that immediate action is unanimously admitted to be necessary; and he recognizes the anxiety of all parties that this action should be undertaken in combination, and harmoniously carried through to a successful result.

The Lieutenant-Governor will now ask the Calcutta Corporation, the District Charitable Society, and the subscribers to the Permanent Memorial Fund, to nominate their several representatives; on receipt of their replies the Committee will be formally appointed and gazetted. The most obvious topics for the consideration of the Committee appear to be the locality for a new Asylum, the number of inmates for whom accommodation should be provided (on the assumption that no more stringent provision is made for compulsory detention than is contained in the Bill already circulated by the Government of India), the provision of funds for its maintenance and superintendence, the constitution of a governing body, and the regulation of the conditions under which patients are to be admitted, retained and discharged. But this enumeration is not intended to be exhaustive, and Sir Steuart Bayley will be glad to receive the advice of the Committee on any other points which may appear to them likely to promote the successful establishment and management of this most important institution.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,
Offg. Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 26th July, 1890.

No		District and da return.	te of	1	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ENC	AL	44.00				
	1	Western Dist	ricts.		1 5 1 1	
1	1	Burdwan Ji Culna	aly 26,	'90 	5·88 3·67 2·95	Weather—rainy and seasonable. Transplantation of amun and aus going on Sugarcane doing well. Prices of common rice:—Srs.
		Cutwa Ranigunge			2.22	Burdwan 15 Culna 13 Cutwa 14116 Per rupec 15
1	2	Bankoora	" 26,	'90	3.03	Weather—warm and cloudy. Transplanting of amus rice still going on. Weeding of aus continues. Sugarcane thriving. Common rice sells at
BURDWAN DIVE.	3	Birbhum Rampore Haut	,, 26,	'90 	5·58 4·42	The rainfall of the season has been unusually heavy. Last year (a particularly favourable agricultural year) there were almost exactly 12 inches of rain in each of the months of June, July, August, and September—say 48 inches in the 4 months. This year 34 inches of rain have already fallen before the first 2 months are over. The present condition of the crops is all that could be desired. Prices 15 to 18 seers per rupee for common rice.
BURD	4	Midnapur	,, 26,	, '90	2.24	Sky overcast; frequent but not heavy rain. Rice doing well everywhere, but the high lands in Tumlook are said to want more rain. Prices of common rice: Srs.
	5					Sudder 15 Contai 18 Tumlook 14 Chatal
				Jie.	0.00	Ghatal 16 Weather—showery. State and prospects of crops excellent. Prices of common
		Hooghly	., 26		2.06	rice :- The second seco
		Serampore Jehanabad		***	4.25	Srs. Ch 13½ 0)
1						Sudder 16 0 per rupee.
		Howrab Uluberia Centrat Dist	" 26	3, '90	2·24 0·88	Jehanabad Weather—showery. Transplanting of amun in progress. Aus, sugarcane, and jute doing well. More rain wanted in the Uluberia subdivision. Price o common rice 13 to 14 seers per rupee.
1	6	24-Perghs.	July 26			Weather—seasonable. Prospects of aus and jute fair. Transplantation of amus proceeding briskly. More rain wanted. Prices stationary. Weather—cloudy with occasional rain. Prospects of early rice good. Padd
3	7	Nuddea Kushtea	,, 26		2.33	on low lands in some places is being reaped.
		Meherpore		***	2.15	
Dryx		Chuadanga		•••	1.21	
15-910	8	Ranaghat Khooina	., 26	, '90		Weather-rainy. Prospects and condition of crops continue favourable. Trans
PRESIDENCY		Bagirhat Satkhira		***	9.54	plantation of amun still going on.
RBII	9	Jessore	,, 26	EU.	9.10	Weather—seasonable, Aus harvesting has commenced; outturn expected to be satisfactory. Amun and jute doing well.
PR		Jhenidah Magura		***	0.96	
13		Narail			0.45	
	10	Bongong Moorshedabad	,, 26	, '9	May 2017	Weather-wet. Amun and aus doing well. Transplant tion going on.
						Weather-very wet. About half the haimanti paddy has been transplante
	111	Dinagepur Thakurgaon	., 26	0, 2	2:20	The present rain is very favourable for this crop. Prospects of other crop
	12	Rajshahye	,, 20	6, 19	0 6.65	Weather very seasonable, there being a undance of rain. Prospects favour able throughout the district. Jute is being steeped, with promise of fai
		Nattore Nowgong			2.36	outturn. Ass coming on nicely. Amun is being transplanted.
	100	A STATE OF THE STA			Trong.	Weathercool and cloudy with frequent heavy showers. All crops promi-
F	13	Rungpur Nilphamari	,, 26		1-86	
DIV		Kurigram		•••	3.68	coming up well.
2	1	Gaibanda Bogra	., 20	6, 19		Weather seasonable. State and prospects of all crops very good. Comme
RAJSHARYE DIVE.	14	Sherpur	" -		3.92	rice selling at 19 seers per rupee.
JEE		Nowkhilla			4.65	
RA	15	Pubna	., 26	6, '9	0 331	Weather—hot and cloudy. Prospects of jute, aus, and aman continue good Prices have fallen slightly.
	16	Darjeeling		6, '9		Weather—very rainy and cloudy. Excessive rain has done damage to jute in the Terai and has retarded transplantation of aghanic rice in places. Surshine is much needed for the tea gardens, and the outturn of tea general is much behind the average.
	17	Julpigoree	,, 2	6, '9	7.84	Weather—seasonable. Prospects of standing crops generally good. Commorrice selling at 14 seers per rupee at the Sudder station.

	No.	District and return		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects
BI	ENG	I.—concluded.			
		Eastern Di	stricts.		
	18		July 26, '9		Weather—rainy and cloudy with gleams of sunshine at intervals. Jute and aus paddy being harvested. Aus paddy has suffered to some extent owing to rapid rise of rivers. Prospects of amun and other crops good. Fodder is not available in abundance. Price of common rice stationary. Weather—seasonable. Harvesting of aus paddy and jute continues. Amun
DAUCA DAVE.					doing well Crops partially damaged in some parts of Madaripore by insects. River rising. Price of common rice stationary.
	20	Backergunge	,, 26, '90	4:45	Weather—seasonable. Prospects of standing crops generally good. Extent of sowing and transplanting of amun same as last year. Common rice selling at about 14 seers per rupee.
	21	Mymensingh	,, 26, '90	2.18	Weather—cloudy and rainy. Aus paddy and jute being harvested. Transplantation of amun still going on. Prospects of standing crops favourable. Common rice sells at 13 seers 9 chittacks per rupee.
VAN.	(22	Chittagong	,, 26, '90	8.05	Weather—seasonable. Aus crop sown to the extent of over 12 annas, Prospects good. Common rice selling at 17 seers per rupee.
CHIPTAGONG DAYS.	23	Noakholly	,, 26, '90	6.29	Weather—seasonable. Reaping of aus commenced. Prospects generally good. Amun crop is being transplanted.
CHILL	24	Tipperah	,, 26, '90	4:46	Weather-very rainy and cloudy. Transplanting of amun going on. Here and there aus and jute being cut. Prospects of paddy good.
	25	Chittagong Hill Tracts.			Report not received.
BE	HAR	Hill Tipperah	,, 25, '90	2.60	Weather-rainy. Harvesting of aus paddy and til nearly completed. Transplanting of amun continues. Prospects of jum crops fair. No change in prices.
	26	Patna Barh Dinapore	" 26, '90 …	2·22 2·00 4·80	Weather—hot. Transplantation of paddy going on. Prospects of bhadoi crops fair, but cessation of rain is required. Harvesting of cheena has commenced in the Barh subdivision. Prices of food-grains almost stationary.
	27	Gya	,, 25, '90		Weather—cloudy. Transplantation of paddy commenced. Sugarcane doing well. Bhadoi has been much injured by excessive rain. Prices of foodgrains stationary.
ж.	28	Shahabad Buxar Bhabuah	,, 26, '90 	5.95 2.75	Weather—very wet, cooler. In the Buxar and Sudder subdivisions bhadoi crops very much damaged by excess of rain. In Sasseram and Bhabuah prospects of bhadoi crops reported to be better. Paddy thriving. Prices
PATNA DITH	30	Sasseram Durbhungs Madhubani Somastipur Mozna	,, 26, '90 ,, 26, '90	7·42 4·74 5·85 9·47 7·82	stationary. Weather—cloudy and rainy. Prospects of bhadoi crops continue very favourable. Transplantation of rice is being rapidly pushed on. Indigo manufacture in progress. Prices remain unchanged. Rainfal during five days of the week. Prospects of all crops excellent, but a
		Hajipur Sitamarhi	1, 20, 30	4·04 3·64	few days of sunshine now wanted.
	31	Sarun	,, 26, '90	3 76	Weather—continually wet: rain every day. Rice very good. Bhadoi wants some sun. About \(\frac{1}{2} \) of \(rahar \) sown; remainder of the crop will be sown after some fine weather.
	32	Chumparun Bettiah	" 26, '90 …	6.21	Weather—rainy. Heavy rain again last night (24th) and night before. Sky still covered with clouds. Sunshine urgently needed to save cheena, makas, and marua from damage. Paddy transplantation continues, but coming to a close. Indico manufacture progressing.
	33	Monghyi Beguserai Jamui	,, 26. '90	1.73 6.45	Weather—cloudy and rainy. Makai and marua doing well, also aghani rice. Transplanting going on.
DIVR.	34	Bhagaipur Banka Mudhepura Soopool	" 26, '90 	6·12 3·89 3·23	Weather—rainy with a good deal of cloud. There has been enough rain every- where for the crops except in the north-east of Soopool, where it is reported scanty. Transplantation is being vigorously pushed on, and standing crops are doing well. Harvesting of cheena and janera commenced, and outturn likely to be good.
BHACULFORE DIVE.	35	Purneah Kishengunge Arrareah	,, 26, '90 	3·16 3·12 5·03	Weather—cloudy with showers. Prospects continue favourable, except where floods have done damage in the centre of the district and along the course of the Kusi and Mahanadi. Transplanting going on. A break in the rains would do good.
Внас	36	Maldah Chanchal Shibgunge Gajole	" 26, '90 	2:48 4:12 5:67	Weather—cloudy and rainy. Harvesting of bhadoi commenced in thana Ratua and outpost Manickchek. About 2 aneas of the crop in the Maldah station have been destroyed by inundation. Transplantation of winter rice in progress. Manufacture of indigo is being pushed on vigorously. Common rice selling at from 14 to 16 seers per rupee.
The state of the s	37	Sonthal Perghs. Deoghur Godda Jawtara Pakour	" 26, '90 	4:04 6:96 6:60 5:82 2:50	Weather—wet and cloudy. Rain every day, and cultivators are very busy trans- planting paddy. Janera coming up well, and all other crops progressing satisfactorily.
	12 3		STATE OF THE PARTY.	SECTION OF SECTION	

N	ło.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
RI	SSA.			
1	\$8	Cuttack July 26, '90	5.48	Weather—seasonable. Transplanting of sarad and weeding of beali going on Slight damage of the paddy crop from the rise of the rivers is reported from the Jhalkuri chakla of the Jajpur subdivision. Prospects generally good.
(Carees	39	Pooree ,, 24, '90	2.10	Weather—seasonable. Puddling and transplanting of sarad crop going on Beali being weeded. Price of common rice stationary.
Но	40 TA	Bulasore ., 26, '90 NAGPORE.	2:29	Weather—seasonable. Transplanting and puddling of rice crop continue Prospects generally good. Number of coolies on relief-works 48.
	Sout	h-West Frontier Agency.		
1	41	Hazaribagh July 26, '90	5:69	Weather—seasonable. A break in the rains required. Transplanting of rice in progress. Some injury to Indian-corn by heavy and incessant rain, otherwise prospects good. Common rice selling at from 15 to 18 seers per rupee.
	42	Lohardugga ,, 26, '90 Palamow (up to 21st July)	3·39 6·85	Weather—seasonable. Rain daily during the week. Sowing of winter rice crop finished. Transplantation commenced. Bhadoi crops doing well.
	43	Singbhoom July 26, '90	1.88	Weather—seasonable. Condition of crops very favourable in all parts of the district. Prices of common rice range from 20 to 24 seers per rapee.
	44	Manbhoom		Report not received.

Published for general information.

CALCUTTA; REVENUE DEPT., The 29th July, 1890. P. Nolan, Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 20th to 26th July 1890.

			s of	barometer		Темре	RATURE			HYGRON	CETRY.		WIND.			
Month.	Date,	Maximum in sun.	Number of hours bright sunshine.	Mean pressure baron at 32° Fair.	Mean.	Maximum.	Range,	Minimum,	Mean wet bulb.	Vapour pressure.	Dew point,	Humidity.	Prevailing direction.	Miles recorded.	Rain,	. Wrather.
890.		0		Inches.	0	0	0	0	0	Inches	0	%			Inches.	
luly	20th	154.5	27	29.423	82-9	88-4	9.2	79-2	79.9	0.980	78.6	87	ENE, E and SE	144	0.56	Chiefly cloudy
,,	21st	151.5	1.9	420	83 4	87.5	91	78.4	80.4	1.000	79-2	87	SE by E and S	81	0.01	Chiefly cloud o, d.
,,	22nd	155 4	1:6	-441	83 3	88-1	10:5	77-6	80 4	1:000	79.2	88	Sand SSE	75	0.31	Chiefly cloud o, p.
	23rd	121-3	Nil	•473	81.8	84-3	7:0	77 8	79 9	0.998	79 2	92	SSW and calm	37	1.30	loudy, o, g, o
,	24th	145-3	06	538	81 3	84 2	7 0	77 2	78.6	-942	77.4	88	SW and SSW	151	0.10	Chiefly cloud
"	25th	149.5	0.7	-538	82.7	86.7	9:3	77.4	78 6	928	76-8	83	SW and SSW	184	Nil	Chiefly cloud
,	26th	143 4	0.7	•587	81 6	86.7	10.4	76:3	78-4	-930	77 0	86	SW by S, SW and SSW.	125	0.47	Chiefly cloud o, g, d, p, t.

					Inches.
	The mean pressure of the seven days				29.481
	The average pressure of the corresponding period for	24 years,	SG.'s O	ffice	29.519
					Hours,
y	The total number of hours of bright sunshine				8.2
	The maximum possible number of hours of sunshine		•••	•••	92.8
	The mean temperature of the seven days				82.4
di	The average temperature of the corresponding period		rs, SG.	s Office	83.3
	The extreme variation of temperature				12.1
Ų	The maximum temperature			***	88.4
					Miles.
	The highest velocity of the wind in one hour				16
					lbs.
	The highest pressure of wind on one square foot			Not me	asurable.
			The state of		%
	The mean relative humidity	•••	•••		87
Si	The average relative humidity of the corresponding p	period for 2	4 years,	SG.'s	
	Office			•••	86
					Inches.
	The total fall of rain from 20th to 26th July 1890				2.75
	The average fall of the corresponding period for 24 ye	ears, SG.	s Office		2.92
	The total fall from 1st January to 28th July 1890	•••			29.52
	The average fall of the corresponding period for 24 years				31.90
ш	mean macause tomposesting be and deduced from the	- tungan of	the Por	comonle -	- 2 m

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet

above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.
o, overcast; g, gloomy; d, drizzling rain; t, thunder; p, passing temporary showers.

J. H. GILLILAND.

For Meteorological Reporter to the Goet, of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 28th July 1890.

Meteorological Report of the Province of Benga

						In all the	100	31411		SERVATION					H
		ATR	PERSSUI	EB.	Win	D.				TEMPERAT	URE.	The state of	The state of		
DISTRICT.	Representative station.	Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direc-	Mean wind ve- locity,	Highest during week.	Date.	Lowest during week,	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily tem- perature of week.	Variation from normal mean of week,	THE PERSON NAMED IN COLUMN
Pooree	Pooree	29°535 29°535	29°547 29°657		Variable 88 W	415°0 429°0	93.7 90.2	19th July 19th	78°6 78°8	71st July 20th, 24th 25th July	87:4° 86:1	79°4* 79°7	83.4°	-0	SCOTHERS OF
4	False Point	29.216	29.237	-,068	sw	284'0	90.2	19th "	73.6	25th u	86'5	77.2	81.9	-0.5	ă
Cuttack	Cuttack	29.483	29'544	048	sw	105'3	92.4	19th "	75'8	24th	87'8	78.2	83.0	-0.9	
Balasore	Balusore	29:467	29'526	- '063	sw	182 2	92'4	19th .,	75'7	24th & 25th July	87.4	78 3	82.8	-0.1	
South-West Midnspore } South 24-Pergunnah-	Saucor Island	29'496	29 522	029	sw	473°Ì	91.5	20th ,,	79.0	19th & 22nd July	88 0	80 2	.84.1	+0.3	
Midnapore	Midnspore	29:370	29'520	-'067	8	1176	93.3	19th ,,	76:1	19th & 24th July	88'4	77:9	83'2	-0.3	
Howran	Calcutta	29-500	29 521	-*054	Variable	96.0	90'0	19th "	77:2	23rd to 25th July	87:3	77:9	82.6	-0.7	
Burdwan	Burdwan	29'422*	29*722*	-1052*	South-	10.18	92'1	19th "	78'4	19th, 24th,	89 2	79 4	84'3	-0.7	
Bankoora	Bankoora	29:200	29'498	- 054	Variable	94.0	89'6	20th .,	75'6	19th July	87.2	77.7	82.4	-1:2	
Beerbhoom }	Raneegunge	29*213	29.545	024	Variable	71.1	90.2	20th, 22nd July	76.8	19th .,	88'6	78.0	83.3	-0.8	
Woorshedahad	Berhampore	29*456	29.523	- 058	E	106'3	89'6	19th 20th	76.3	24th ,,	87.8	77*7	82'8	-1.7	
Nutidea	Krishnaghur	29'478	29.521	049	ESE	151'8	91.8	19th "	76'8	23rd & 34th	89.2	78'1	83'8	-0.2	
Jossore	Jessore	29.500	29.533	- '060		1	91'8	19th .,	78'4	July 21st to 25ch	89 1	79:0	84'1	-0.9	
Chittagons	Chittagong	29'525	29'6153	045	8E	153:3	87'1	20, 22 to	73.0	23rd to	86'8	78'4	80 1	-0.0	į
Chittsgong Hill Tracts	Demogiti					100	bser	25th July	geived.	25th July			1-93		
Backersunge	tiarrisai	29*557	20.569	'032	SE	1193	87.3	22nd July	77'8	23rd	85.7	78 0*	81.9*	+0'2	į
Noakholly	Nonkholly	29:557	29'601	- '040	SE	221:7	86.2	20th ,,	75'8	24th	84'5	77'3	80.8	-0.6	
Furreedpore	Furreedpore	99-599	:9'562	'043	SE	138'9	88 0	19th	77'4	24th ,.	86'8	79'0	82'9	+0.2	
CONTRACTOR OF THE STATE OF THE	Danca	29.535	29'558	'058	Easterly	203'8	881	19th to 22nd	76.7	and the	87'8	77 8	89.8	~1.3	
	Commillab	29'547	29'583	-'044	South-	178 9	88'9	July 20th	75.8	20.4	86 6	76'7	81.7	-0.8	
	Mymonsingh	29.510	29.268	- 7051	easterly ESE	159 9	86'2	gard ,	76 6	onth	85'5	77.5	81.2	-1.7	
	Bogra	20'464	29'527	'039	ESE	122'5	8, 8	10009010	77'1	Sugar Sugar	87.9	78-1	83.0	-1.0	
	Serajgunge .	29'499	50.248	055	SSE	72'3	85'6	19th, 2eth	76-7	2443	87.1	78-3	82.7	-11	
	Rampore Heau	29:456	29'624	042	South-	129'4	89.8	20th o	77.6	19, 20, 24,	87.2	78.1	82.7	-1'4	
	lenh.	29 446	29-526		ensterly SE.	74'6	91'3	196h	77:5	25th July 34th	89.6	79.0	84'3"		
San San Service Comment	Dinagepore	19:418	29'531	-1077	E	67.6	90'1	20th)& 21st	78'1	24th, 25th	88'5	79'4	10000	-0.8	Į
The second secon	Rungpore	29 487	29'561	036	E	95'6	90.3	July	77:7	July	89'1		184'0	1000	
Julpigoree 5	Julpigoree	81°270	89.229	- 012	,	99"97	59.9	toth	75'1	23rd & 24th July 25th	88.9	78:4	83.8	-01	
Cooch Rehar		22.806	_	-'062	Pop		66.6	La De		the world		加州島	-	A SHOW	
Darjeeling Hill Tracts	Darjeeling		College Street		ESE	79-9		20th to 23rd July	56.7	21st ",	65.0	57'2	61.2*	-0%	
North Bhagulpore	Purnesh	- 2u 400	29.525	,021	E	82'8	90.7	21st "	76'4	25th	89 3	78:2	83.8	-1'6	l
Mozuflerpore	Mozufferpore	29'314	29'493		E & ESE	1831	90.3	21st ,,	77*9	19th & 25th July	87.7	79:1	83.4		
Durbhungs	Durbhungs	29'348	29.014	062	ENE	169.0	91'4	2:st	75.9	25th ,.	87:12	781	83.0	-2.1	
Chumparon	Motihari	29.298	29:524	038	ESE &	219'1	91.5	21st & 2ard July	75:9	25th ,,	88 9	78.6	83.8	-1.0	
Saron	Chupra	29,396	29.455	-'067	E	212 1*	90'8	21st	75.6	19th	87 6	78'4	83.0	-216	l
Shahabad	buser arreh	29°130 29°257 29°289	20,484 50,484 20,484	- '063 - '063 - '063	Variable ENE Catm	83 Z 135 0 7 B	90 8 88 9 91 4	21st 21st 31st	75.0 75.8 71.7	19th " 19th " 20th "	87°1 85°7 87°7	78°2 78°1 77°1	82°7 81°9 82°4	-0.8 -2.8 -3.8	
Gya	Gya	29-128	20'506	-'062	E	111.6	90'4	21st ,,	77:8	24th ,,	88.3	79:3	83'8	-1'4	
Patna	Bankipore	20 313	29 496	- 075	E	1844	90 4	21st ,.	77;2	eath	67 4	79'4	884	-116	
South Shagulpure	Khaguipore	291343	21/504		Variable	77.7	90.5	21st ,,	77.0	19th	88'8	78'8	83.8	-10	
Southal Pergunnans	1momas	20'014	29 509	- '052	E	100'9	90'8	20th .	75-6	10th ,,	87.1	77'1	82.1	-10	į
Hazaribagh	bazaribagh	27.524	29 522	'059	Westerly	162.0	84'9	21st ,,	71'2	25th ,,	82.1	72.9	77:5	-175	
Lobarduges j	Ranches	27:405	29 520	057	Variable	152'8	84'0	23rd ,,	70.0	25th ,,	81'8	71.8	40.00	-13	
Singbhoom	Onyetnena	¥8*758	29-514	- '043	sw	55'6	90.4	19, 20, 22,	76'2	2sth "	88'0	77-6	82'8	+01	
ſ	Sibsagar	29*259	29'623	-,036	SE	1	911	& 23 July 13rd "	75'5	241h ,,	85.7	76 9	82,8	-15	
THE PARTY OF THE P	Dhuba	29:451	20.208	- '021	Easterly	1187	89 2	Sist	76'3	25th	85.6	77-4		-17	
Assam		ALCOHOL: NO PERSON NAMED IN COLUMN TO PERSON						THE RESERVE AND ADDRESS OF THE PARTY OF THE			THE RESERVE AND ADDRESS OF THE PARTY NAMED IN		-	-	

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the arithmetical average of the arithmetical average of the arithmetical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the satisfact of the period in question during the particles are the number of stations. A rainy day is one on which at least hundred th of an inch fell.

the week ending Friday, the 25th of July 1890.

99 99 88 99 88 99 88	79 7 4 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Rainfall of week at 5.19 1.52 2.19 1.52 5.19	Mean for district.	Normal mean.	Mean for district,	Normal mean.	Variation,	Sinc	e 15th May	1890.	number days.	number f days.	Representative station.	DISTRICT.	
9000 9 9 9 9 9 8 9 9 8 8	79 7 4 9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2°10 0°86 1°61 3°88 2°55 1°25	4.13				1			1890.	mb	mb ys.	190. 2 . Representative District.		
99 99 88 99 88 99 88	77 9 77 77 74 8 79 16 16 16 16 16 16 16 16 16 16 16 16 16	2°10 0°86 1°61 3°88 2°55 1°25	4.13		Mean	Nor	- 5	_ = =	Normal mean,	Variation,	verage number of rainy days.	al nu iny da			
7 9 9 6 9 4 9 9 8 9 9 8 9	·9 ·7 ·4 ·9 ·6 ·6	0'86 1'61 3'88 2'55 1'25	STREET, ST	3.02		The second second	Var	Mean for district,	Nor	Varia	Avera	Normal r			
6° 99 44 90 88 99 88 99 8	·6 ·6	2°55 1°25	STREET, ST			10*04			20.17			4.0	Pooree	Pooree	
9 4 4 9 9 9 8 8 9 9 8 8 9 8 8	·6	1.25	130.4	2.79	12'78	10.02	+2.73	25'00	21'42	+3.28	5.4	41	Cuttack	Cuttack	
4 9 9 8 8 9 8 8 8	·6		2.95	2.93	7.04	10'31	-8.27	24'11	21:29	+2.82	4'7	4.0	Balasore	Balasoro	
99 8 99 8	14	2.16	1'35	3.33	5.23	11.98	-6'45	22'42	24.01	-1.29	5.0	4.7	Saugor Island	South-West Mid-	
9° 8 9° 8		Serio Dividi	1.00	2.63	5'58	9.79	-4.21	26.03	21.23	+4.80	*5.0	4'4	Midnapore	South 24-Pergunnahs Midnapore	
9 9 8 9		2:35	2.25	2.04	6'57	9.33	-2.65	25*86	2176	+4.10	5.3	4.8	Calcutta {	24-Pergunnahe	
9 9 8 9	1 m	4.88	3.82	2'24	10.47	7.57	+2.90	83*59	19:09	+14.20	4.7	41	Burdwan	Troogniy	
9 8 9 8	7	7:37	4'44	2.60	10.24	9.74	+0.20	28.92	21.85	+7.07	5.2	4'2	Runkosus	Burdwan	
9 8	4	2.23	3.84	2.71	12-96	9.45	+3'51	81'96	21.23	+10'44	6.2	4.6	Danis	Reerbhoom	
9 8	3	4.01	3.79	1.95	11.07	8.43	+2'64	25:30	20.70	+4.66	6.0	4.0		West Burdwan	
8	4	2.31	1.82	1'88	8'46	7.70	+0.76	24'47	20'94	+3.23	4.6	41	Berhampore	Moorshedabad	
8	1	2:79	2.76	2.28	8'06	8:39	-0.33	27.38	24.08	+3:30	5.6	5.2		Jessore	
	7	7.78	₩85	6:47	29'59	22.78	+6.81	59'39	57:70	+1'69		Tour sys	Jessore {	Khoolna	
1			L 99	2 82		11.69	, 0 01	00 00	35'40	47 03	6.2	6.3	Chittagong		
9	1	5.82	5.57	3.93	14'36	13.84	+0.13	36:72	36.88	-0-24	5'8	5.6	Demagiri Barrisal	The state of the s	
4	0.0	6.13	7'49	4'94	18'15	17'43	+0.72	45'95	49'50	-8.55	6.2	6.5	Washhallu	Nonhhall.	
7	1	3.86	2.81	2'30	7.29	8:45	-1.16	19.91	25.85	-5'44	4.7	2.0	Furreedpore	Furrendness	
9	.2	2'83	2.79	2.67	11.88	10 48	+1'45	33'64	27-71	+5'93	7.0	2.3	Dacca	Dacca	
7	16	5.51	2.94	2'54	11'34	10.11	+1.53	82.33	30'80	+1'43	5.2	5'4	Commillah	Tipperah	
8	4	2'13	2*28	2'68	11.43	9.99	+1'44	88-61	32'44	+6:17	5'4	52	Mymensingh	Mymensingh	
5	1	4.08	4.32	2 25	8'75	9.78	-1.03	29'47	27.28	+2.19	8.9	4.8	Bogra	Daniel	
1001	3	3*25	2.67	1.60	7'08	7.75	-0.67	23-74	22.72	+1.02	7.0	4.5	Secajgunge	Pubna	
100	6	8 67	5.65	1.88	13.69	8193	+4.76	36:37	28'54	+12.83	6.3	3.8	Rampore Beauleab		
THE	7	2.07	2.25	1'65	12.06	7:27	-2'47 +2'59	20'49	23.92	-8'43	5.2	4.2	Maldah	Maldah	
J. Park	8	5:35	2.72	2.19	8.62	9.47	-2 56	32.06	27:16	+4.90	4.6	4.3	Dinagepore	Dinagepore	
William.	00	7.52	5.50	4.20	24.50		+7'01	122	40.14		5.3	4.3	Rungpore	Rungpore	
		10.50	9.23	5.81	43.20	17'19	+16'45	71.87	57°03	+14 84	7.0	6.0	Julpigoree {	Julpigoree	
	0.0	3.15		2.73			+6'22		100				Darjeeling	Darjeeling Hill Tract	
	300		4:17	1100010	17.10	10.83	150.55	35.22	25'41	1+10.11	5'4	4.0	Purneah {	Purneah North Bhagulpore	
No.	77	14'19	4.42	2.08	13:47	9.06	+4.42	23.61	17.80	+5.75	4'3	3.2	Mozufferpore		
13,130	פינ	8:95	4.87	2.02	15:46	9:11	+6.35	27.52	18'49	49.03	4.3	3.6	Durbhunga		
995	5.3	2.63	5.03	1.86	0.55	0.08	+0.14	21.42	19'54	+12.05	4.5	31	Motihari	Chumparun	
7	7-7	7.45		N.		V 08	1034	SE SE	16.63	12.10	5.3	3.8	Chupra Dehree	Sarun	
1	3.7	4.03 12.30	7.28	2:35	13'97	8'40	+5'57	24'89	14.26	+10.63	6.3	4.0	Buxar Arrah	Shahabad	
	8.0	4'44	4.20	2.23	14'47	8.21	+5.86	28'57	15.93	+13.04	5.8	41	Gya	Gya	
1/25	0.0	5.55	2.86	2'22	9.03	8.73	+0.30	18:82	16'41	+2.41	5'5	4'3	Bankipore	Patna	
	010	8.90	4.92	2:36	10.61	8-28	+2.33	25'42	16.08	+8'44	6'4	4.2	Bhagulpore {	South Bhagulpore Monghyr	
FINA	4.7	4'04	3.74	2.21	11.78	9.52	+2 23	29:78	21.04	+8.00	6.3	4'4	Doomka	Sonthal Pergunnahs	
1992	0.0	7.09	5.73	2.88	13.96	10.54	+3.72	26'30	19.87	+6'43	6.8	5.0	Hazaribagh	Hazaribagh	
	0.0	3'66	6:54 2:90	2.40 5.40	11.05	9.67 9.07	+1.38	20.26	18'90 18'89	+3.38	6.2 6.3	2.1 2.0	} Ranchi {	Lobardugga Manbhoom	
9009	8.7	1.65	1'88	8.20	7:04	10.80	-3.82	19:17	21'78	-3.61	6.0	4.0	Chyebassa	Singbhoom	
100	0.0	4.60	THE STREET		NESON A		1000				- XIII		Sibsagar]		
1 300	9.6	3'48	L			X	1223			HE ST	ENLEY!		Dhubri	Assam	

Tears. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater, noting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means for means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of July 1890.

	W N				- R	AINFALL	OSee th			To	TAL			A SECOND	
leteorological division.	District.	Station.	Saturday, 19th July.	Sunday, 20th July.	Monday, 21st July.	Tuesday, 22nd July.	Wednesday, 23rd July.	Thursday, 24th July.	Friday, 25th July.	Number of rainy days.	Rainfall of week,	Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Totla rainfail since 15th May.	rai fron Ma da
RIBSA	Pooree	Pooree Khurdah Banpur False Point Gop Satpara Pipli	0'56 0'39 1'05 0'14	1'56 1'53 0'79 1'20	0°06	0.01 0.81 1.15	0°05 0°49 0°03 0°35	0°17 3°20 0°08 0°10	0°09 1°14 0°42	6	2°45 6°62 1°61	13°47 20°38 10°18	8.71 10.83 8.88 11.76 ?	24.60 36.43 22.89	
	Cattack .	Jagatsingpore Banki Cuttack Kendrapara Jajpore Dharmsala Salipore	2'14 0'50 1'63 0'10 0'22 0'50 1'44	0°04 1°10 2°40 0°69 0°29	0.05	0°04 0°40 0°62 0°62 1°00 0°10	0°07 0°35 0°42 0°45 0°17 1°63	1'80 1'43 1'50 1'13	0.60 0.83 0.35 1.95	4 5 6 7 5 5	4*08 8*14 7*11 2*75 3:58 2*74	13'40 12'97 17'57 9'65 10'30 9'91	8:58 10:16 10:89 10:15 10:44 ?	23'58 27'52 53'53 17'98 24'84 27'91	
	Balasore	Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah	0.22 0.93 0.14	0.32 0.30 0.31	* 0.02 1.30 0.62 0.03	0°40 0°40	0°25	4°10 0°54 1°62 0°02	0°45 0°75 0°40 0°08 0°16 0°15	6 4 3 5 3 7	5*39 2*28 2*00 2*37 2*40 3*26	10°52 7°15 6°10 5°56 5°79 6°98	9:47 9:11 9:50 11:09 12:04 10:64	99:87 95:58 92:28 95:75 93:75 94:52	
OUTH-WEST BRNGAL.	Midnapore	Contai Saugor Island Tumlook Midnapore Ghattal Kukrahaty Garbetta	0°05 0°26 0 38 2°05	0°17 0°26 0°50 0°45 0°12 0°46 0°48	0.08 0.37 0.20 0.61 0.11 0.43	0°44 0°10 0°40	0 20 0 53 0 71	0°18 0°50 0°25 1 77 0°52 0°64	0.08	4 4 5 5 5 4 5	0°38 1°25 1°50 2°24 2°87 1°79 3°60	3°50 7°93 5°30 5°39 7°68 4°76 6°39	11.71 12.62 8.85 9.60 10.91	23°56 23°31 27°60 28°20 24°54 16°87 21°60	
	24-Pergunnahs	Diamond Har- bour Canning Town Alipore Jail Barrackpore Dum-Dum Baraset Buseerhat	0°06 0°04 0°06 0°48 0°08	6:16 6:18 6:03 6:43 6:26	0°26 0°35 0°69 0°05 0°71 0°30 0°61	1°12 1°35 0°31 0°07	0 04 1 45 0 58 1 19 0 57 2 40	0.62 1.47 0.23 0.73 0.16 0.28 1.78	0.15 0.13	7 5 6 6 4 4 5	2'41 8'51 2'75 1'94 2'32 1'68 4'90	5°13 8°40 9°43 6°07 5°70 5°21 9°81	10 17 8 81 8 34 8 02 9 44	20°32 26°94 27°55 22°37 22°19 22°40 30°21	
	Howrah	Howrah Mohesreka (Coloberiah) Serampore Hooghly Jehanabad	0°02 0°07 0°05 0°55	0·24 0·24 0·03 0·03 0·03	0.70 0.10 0.88 0.31 0.02	0°11 0°02 0°08 0°26	0.83 0.20 0.10 1.54 1.40	0°36 1°05 0°10 1°25		5 5 6 6	2°24 0'88 2°15 2°11 4'25	7:51 3:48 5:98 4:81 7:64	9°30 10°48 9°20 8°84	23'96 33'90 22'82 24'27 28'73	
	Burdwan	Culna Eurdwan Cutwa Rancegunge Mankur	1.85 0.28 0.85	0.01 0.59 0.01	0°88 0°14 0°10 1°18 0°65	0°14 0°91 0°28 0°09	2°10 0 27 0°09 1°01 0°16	0.12 0.00 0.00	0°03 0°01 0°72	3 7 4 7 5	8.67 5.88 1.90 2.23 2.54	9'08 14'07 8'26 11'19 8'80	9 64 7 62 8 12 6 97 9 78	29°80 37°86 33°11 31°56 29°93	
	Bankeora	Bankoora Bishenpore Maliara Khaira Indas Kotalpore Anda Gangajalghati Raipore Sonamukhi	4°25 0°73 0°85 0°48 0°57 0°28 0°41 1°41 0°96 0°69	0'85 0'84 0'20 0'38 0'85 0'30 0'20 0'16 1'12	0°66 0°13 1°29 0°95 0°20 0°13 1°71 0°45 0°42	6°57 0°66 0°03 1°23 0°08 0°20 0°66 0°12 0°26	0.08 0.29 0.32 0.86 1.06 1.83	0°95 0°87 0°85 1°78 3°14 0°26 0°23 1°25 0°70		5 6 5 4 5 6 6	7-28 2-71 3-01 4-76 5-23 5-28 2-74 3-61 3-09 3-41	13°89 6°55 12'98 7°52 17'24 15'00 18'00 12'48 10'29 14'23	9 17 8 83 9 67 11 26 9 9	30°66 28'57 36'42 19'99 36'23 35'81 28'81 38'67 26'96 30'94	
; 1	Reerbhoom	Bh. Soory Hetsinpore Rampore Haut Bolpore Murarai	2°81 0°06 2°80 1°70	0.06 0.40 1.15	0.80 0.81	0.06	0°11 0°40 0°25 1°20	0°16 0°51 0°65 1°64 0°40	0°49 0°52 0°15 0°05 0°20	7 7 5 4 5	5°58 3°05 4°50 8°70 4°01	17:31 10:99 12:30 10:24 15:17	9'38 11'02 7'60 3	34.78 29.64 31.76 29.59 27.21	
	Nuod-a	Ranaghat Kishnaghur Choosdanga Meherpore Kooshtea	0°42 1°69 0°10 0°10	0.00	0°30 0;0% 0°40 0°20 0°22	0°66 0°66 0°80 0°20	0°14 0°55 	0°85 0°64 0°15 1°05 0°46	0.50	5 5 3 4 6	1°77 2°33 1°21 2°15 1°64	9:52 9:52 7:07 8:95 7:50	7'84 7'47 7'83 7'07 8'28	26.67 29.00 20.81 23.07 22.76	
	Khooina	Satkhira Bagirhat Khoolna Nakipur Ramphal	0.86	0.08	0°14 0°29 0°71 0°39 0°42	0.68 0.10 0.90 0.28	1°84 1°78 0°55 0°98 2°66	2.27 1.07 1.05 1.00 0.52	0°05 0°21 0°03 0°19 0°17	7 5 6 5 4	5.05 3.54 4.20 2.82 3.67	8'75 8'18 10'97 8'34 11'87	9'52 11'03 8'43 P	30°07 34°53 30°94 34°63 32°92	
	Jessore	Narail Jessore Jhenidah Magoorah Bongong Kandi		0.83 0.11 0.25	0.67 0.04 0.23 0.20 0.40	0°21 0 54 0°35 6°17 0°15	0°05 0°84 1°18 0°08 1°00	0°13 0°70 0°44 0°31 0°15	0°32 0°04 0°08 0°30	5 6 5	0.78 2.79 2.27 1.17 2.25	5°15 7'27 10'67 5'82 7'44	6.67 8.03 7.48 7.84 8.11	26'44 29'22 23'14 22'02 22'06	
	Moorshedabad	Berhampore Lallongh Azimgunge Jungapore Lalgoin Jiagunge Akhrigunj Patkabari	0'86 0'16 0'25 0'07 0'09 	0°21 0°13 0°36 0°45 0°58 0°32 0°05	0°19 0°27 0°50 0°35 0°50 0°46 0°23	0.01 0.09 0.30 0.65 0.92 0.35 0.23 0.30	0°17 0°15 0°34 0°42 0°62 0°40 2°30	0'76 2'08 2'06 1'90 0'72 0'90 1'65 6'84 0'20	0°70 1°21 1°80 1°00 0°38 0°40 0°77 0 95 0°20	6 6 6 7 4 7 7 5	2°80 4°04 5°50 4°22 5°39 2°72 8°64 8°93 8°20	10°24 9°46 14°70 11°11 8°37 12°54 9°81 13°63 11°30	9°05 8°22 7°86 7°75 8 66 9°02 1	24'36 20'76 27'19 29'14 21'35 29'41 26'63 29'46 25'80	
AST BENGAL	Chitregong	Cox's Bazar Chittagong Kutubdia Satkanya	0°48 0°48 0°25	0:40	0.70 0.05	0.05 2.40 0.37	3-05 0-27 0-60	3:45 2:97 3:00	1°70 2°33 3°00	7 6 4	11:20 8:50 6:07	29:79 29:38	30°29 15°26 P P	71'00 47'64	
	Unitingong Hill Tracts Backergunge	Rangamati Ruma Patuakhally Perozepore Burrisal Bhola	0'68	0°37 0°10 0°11 0°19	0°25 0°13 0°55 0°09 0°32	1°50 0°27 1°45 2°00	0°54 1°00 1°50 1°05 -1'28	1'70 2'60 1'39 1'71	4'65 0'65 0'64 0'81	7 5 6 6	7·72 5·88 4·45 5·62	15.00 14.73 18.67 15.84	19:71 10:60 16:38 11:92 11:80	38°06 87°12 40°31	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of July 1890 -contd.

					R	AINFAL	L	CHARLE	, '	T	OTAL				
Meteorological Division.	District.	* Station,	Saturday, 19th July.	Sunday, 20th July.	Monday, 21st July.	Tuesday, 22nd Juny.	Wednesday, 23rd July.	Thursday, 24th July.	Friday, 23th	Number of rainy days.	Rainfall of week.	Total rain- fall since 1st of mouth,	Average total rain- fall from 1st of month.	Total rainfall since 15th May.	Average rainfall from 150 May to date.
AST BENGAL		Gournaddi Bauphal	0.02	0°11 0°53	0.35	1.28 1.53	0°35 3°16	0°48 1°96	0.30	7 5	2°94 7°34	9°11 15°34		23°99 54°86	ş
	Noakholly	Nonkholly Fenny Harishpare Ramganj	0.50 0.50 0.60	0.10 0.58 0.10 0.51	0.63 0.23 1.75 0.40	1'42 2'10 3'90 1'13	1:71 2:85 2:50 1:03	1.74 3.00 0.80	0.06 0.55 0.10	7 6 7	5°97 9°01 4°22	16:97 19:30 17:01	17.56 17.29 9	41.05 50.81 41.88	48°3 50°6 9
	Furreedpore	Madaripore Furreedpore Goalundo	0.25	0.24	0.88 0.82	1°27 0°56	0°70 1°02 0°65	0.52	0.09 0.56 0.08	6 4	1'69 3:99 2'74	7·26 7·33 7·28	8:73 8:11 8:48	19'75 19'87 20'08	26:3 25:6 24:0
	Dacca	Munshigunge Dacca Naraingunge Manickgunge Joydebpore	0°10 0°40 1°04 0°05 0°23	0°19 0°25 0°11 0°09 0°02	0.08 0.15 0.15 0.30 0.13	0°70 0°54 0°29 0°45 0°15	0°80 0°65 0°81 0°06 1°45	0'44 0'08 0'49 2'n0 0'20	0°27 0°33 0°18 0°18 1°10	7 7 7 7 7 7	2°58 2°40 3°04 3°13 3°28	11'84 13'24 13'56 8'89 10'42	11'61 9'71 11'87 8'48 P	36.07 32.76 36.35 30.20 33.35	31.7 27.3 29.4 22.1
	Hill Tipperah Tipperah	Agartola Comilla Chandpore Brahmunheria Ramchandra-	0°25 0°14 0°50	0.25	0°04 0°03	0°35 0°89 0°63	0°57 1°60 0°50 0°58	0°98 1°22 0°43	0°45 0°25 0°80 0°16	5 7 8 7	2°60 4°46 1°90 2°80	10°52 14°19 10°12 9°78	8'39 11'40 12'03 8'57	33.98 85.19 31.70 27.97	27 1 35 0 32 0 28 8
		Pore Nasirnagar Daudkandi Kasba Laksham	0'08	0.08	0.02	0.70 0.10 0.71	0.90 0.98 1.00 3.10	0:48 0:10 0:52 2:30 2:30	0.72 0.70 0.29 0.05	7 3 4 4 3	3°01 0°00 2°45 3°40 6°40	19:30 5:80 4:42 19:69	1	38'74 2: 62 17'16 43'15	9. 9. 9. 9. 9.
	Mymensingh	Kishorekunge Atia (Tangai) Mymensingh Jamslpore Netrokons Subornakhall, Durgapore ShereporeTown Dewangan;	0°18 0°36 0°14 0°06 0°05	0°38 0°36 0°32 0°07 0°30	0 91 0 07 0 07 0 07 0 18 0 55 0 27	0°20 0°48 5°20 0°52	0°21 0°33 0°97 0°90	0°35 0°67 0°63 1°67 0°62 0°40 1°91 0°70	0'44 0'31 0'45 0'67 1'09 0'40 1'41 0'16	5 5 7 4 6 3 5 4	1.62 2.64 2.18 2.47 2.47 6.00 4.72 2.17 4.45	8·17 8·95 13·19 7·73 18·37 10·60 22·12 5·33 8·24	0°21 7°91 11°31 9°29 12°21 9	34'30 31'65 40'89 36'14 50'35 26'34 61'38 29'02	33°1 24°6 36°2 28°1 30°6 -?
NORTH	Pubna	Pubna Serajgunge	0.56	0.08	0.03	0°37 0°34	0:71 0:18	0°90 0°33 1°02	0°15 0°20	7 7	2.06 3.27	7*00 7*18	7.43 8.06	34-97 21:84 25:60	21·9 23·4
BENGAL.	Bogra	Sherepore Nowknilia Bogra Panenbibi .	0.33		0°19 0°31 0°15	0°94 2°02 0°68 0°48	1°42 0°20 0°64 0°28	1'05 2'10 1'21 0'78	1°55 0°15 0°98 1°62	6 5 6	5'47' 4'78 3'88 3'16	10°73 8°54 8°64 7°08	9°95 8°46 10°59 10°09	30°64 26°58 26°48 34°11	27°4 25°1 30°2 26°1
	Rajel glye	Reaulesh Nattore Naogaon Lalpore Manda	2'59 0'22 0'20	0.13 0.92 0.92	0.50 0.15 0.00	1'54 0'30 0'30 0'15 0'10	0°08 0°38 0°68 0°55 1°20	1'55 0'87 1'85 0'55 1 20	0°47 0°93 1°80 2°18 0°60	7 6 6 5 7	6.65 3.22 7.07 8.98 4.20	15.52 12.54 12.99 8.43 9.45	9:37 9:45 7:97 P	36:03 40:62 32:46 19:84 19:85	22") 23"2 25"1 9
u.	Maldab	Maldah Chanchai Gajol Sibganj		0.05 0.33 0.40	0°32 0°11 0°60 0°42	0'46 0'81 1'84 0'75	0.08	0°60 0°02 0°90 1°76	0°45 1°10 0°80 0°69	6 5 5 6	2°07 2°43 4°47 3°48	6:39 7:29 12:94 11:98	9.07 9.47 9	21'14 19'82 28'47 30'82	22 - 25 -
	Dinagepore	Mehadebpare Churamon Raigunge Dinagepore Ralographat Thakoorgaon	0.03	0.72 0.74 0.93 	0.08 0.10 0.10	0.05 0.23 0.17	1.85 0.11 0.12	2°18 0°64 0°95 1°16	0°57 2°27 0°58 4°70 0°34 2°85	7 3 5 4 4	5.96 3.11 4.43 5.45 1.61 4.52	12'10 11'84 14'66 11'39 9'04 13'59	8:82 8:99 9:61 11:12 8:82 9	29:33 39:33 34:42 35:45 28:78 46:11	25.3 28.3 27.3 29.4 20.6
	Rungpore ".	Boawanigunge (Gyabanda) Rungpere Kurigram Bagdogra (Nilphamari	0.05	0.25	0°14 0°14 0°40 0°58 0°18	6:36 0:01 0:02	0°15 0°45 0°04 0°04	0°52 0°35 0°31 1°48 0°a0	1°50 0°48 1°61 1°98 0°64	6 6 4 5 3	2.02 1.48 2.36 4.10 1.32	7*06 6 40 8*80 12*30 3*28	8°69 13°75 10°93 11°46 7	35'41 34'45 43'40 50'30 32'35	81°1 40°2 42°8 46°4
	Inipigoree	Jalpigoree Alipore Docar Fallacotta Debiganj	4.86 	1.60 0.60	0°15 0°08 0°07 0°42	0.62 8.83 0.62	0°13 0°08 0°23	0°20 0 60 0 18 0'11	0°81 2°35 1°82 1°36	7 6 5	7.84 7.04 2.95 1.92	86'71 30'75 32'20 12'16	22°48 P P	80°88 89°41 78°10 51°80	58.5 2
	Cooch Behar	Bhayatpore (Nagrakatta). Dinhaus Cocch Behar. Mickilgunge. Matabhanga Buza	0°88 0°27 0°41 0°69 1°78	0.18 0.01 0.14	1'43 0'20 0'52 0'86 0'88 0'24	0.65 0.03 1.15 0.44 0.08 0.08 0.50	0.73 0.31 0.08 1.05 1.07	1'45 1'04 1'34 0'38 5'27 6'34 1'01	1°00 0°34 0°45 1°92 2°54 4°87 3°01	7 4 5 6 7 7	10°37 1°60 8°94 8°58 9°06 7°90 7°70	41'08 5'29 22'73 22'59 33'67 45'96 48'87	11°23 18°34 16°12 17°75 41°61 23°19	77°83 48°84 75°85 72°64 81°60 96°85 87°75	50°93 64°44 53°03 58°53 100 51 56'39
	Hát	Silliguri Darjeenns Kaimperg Kurseeng	1°50 0°88 3°70	1:19 1:12 0:86	0°90 1'35 0°44	0.02 0.58 0.83	3°10 4°54 4°42	0.02 0.01 0.01	2.00 2.00 2.55	7 7 7 7	10°22 11°08 13°73	88'48 40'71 55'29	24/17 19/46 9	73°45 63°97 102°86	52'08 30'67 1
Nонти Ненаи.	Pornesb	Kissenguage Armreah Furneah Gondwara Balarampore	0°79 1°16 0°82 0°80	0°50 0°48 0°45	0.08 1.00 0.18	0:20 0:21 0:41 0:40 0:30	0°35 0°53 0°13 0°18	0°33 1°45 1°16 2°26 2°60	0.76 0.86 0.89	6 6 4 6	2.93 4.16 8.12 4.48 6.26	17 49 20 56 15 36 10 34 18 10	13 71 12'89 16'61 9	43°85 87°40 38°43 19°22 86°15 20°27	23°14 22°06 23°15 23°15
	North Bhagul-	Matiari Kalinganj Maddapore Scopool Protobganj	0°44 0°66	0.37	013	2:50 0:97 0:81 0:28	0°21 0°48 0°20 1°89	0.00 0.00 0.23 1.25	1'05 2'60 4'25 3'18 0'87	7 3 6 6	8°55 5°94 5°33 5°32 5°03	11'64 18'92 17'85 14'78 14'07	9 905 8:17 9	50°09 33'76 24'57 25'54 21'95	20°00 19'74 ?
	Durbhunga	Tajpore	1.03 1.69 1.41 0.22	0.15	0.05	0.30 0.31 0.03	1.04 0.33 0.50 1.65	0°85 0°32 0°16 1°75	2'04 2'41 8'15 2'46 0'80	6 4 3 6 5	5.00 4.74 4.88 3.46 5.77	15 51 16:77 14:19 11:33 11:22	9:51 9:81 8:49 9	29°52 28°41 20°08 21°82	18'31 18'16 7 7
	Mosufferpore	Sitamarhi Mozafferpore Hajipore Pars Mahua Nichar Pupri	1°18 1°44 0°86 0°05 0°08 2°70	0°17		0.08	0°37 2°07 0°12 0°60	0:07 0:22 0:41 0:10 0:17	2:09 4:00 0:42 2:35 0:76 2:50 1:60	4 5 4 4 3 9 3	3°64 7°82 1°81 4 80 1°90 3°48 4°70	11°67 16°85 11°91 13°90 11°81 10°76 13°60	8'81 9'29 9'04 9 9	21-83 20-85 22-15 24-17 23-50 23-60 26-10	18'30 18'26 10'07 7 7

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of July 1890 -concld,

					R	AINPALI				Tor	AL			factor 1	
Meteorological Division.	District.	Station.	Saturday, 19th July.	Sunday, 20th July.	Monday, 21st July.	Thesday, 22nd July.	Wednesday, 23rd July.	Thursday, 24th July.	Friday, 25th July.	Number of rainy days.	Rainfall of week.	Total rainfall since lst of month.	Average total rainfall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
NORTH BEHAR -concluded.	Chumparun	Motihari Bettiah Bagaka Burkurwa	0°90 1°80 0°52 0°31		0°08 0°24	0.03	0°29 0°16 0°58	0.35 1.05 0.10	2:86 3:53 0:21 2:35	3 6 5 4	3'84 6'21 1'93 3'37	14'88 15'56 15'49 8'42	8:68 10:32 9	32'84 30'29 32'70 24'30	17'99 20'00 P
SOUTH BRHAR	Sarun Shahabad	Gopalgunge Sewsn Chuprah Buxar Pehree Bhabooah Sasseran Arrah Mohanioh	0°15 0°43 0°30 0°84 2°90 0°40 3°32 0°48	0°20 0°42 0°08 0°04 0°45 7°10	0°13 0°08 0°06	0°51 0°03 1°70 1°40 0°75	0°40 1°81 0°93 1°30 0°49 0°80 1°10 0°05 1°10	0'40 0'40 0'90 1'50 0'40 1'80 4'50	1'74 1'51 1'55 0'15 0'91 0'15 0'25 2'35	3 6 7 6 7 6 6 6	2°29 4°91 3°76 3°30 7°45 3°45 7°67 14°54 3°10	6'49 11'62 9'65 12'58 10'31 10'30 11'36 25'37 8'01	9:96 8:84 9:16 8:17 8:35 9:37 8:00 8:15	16°75 25'82 21'70 23'41 20'63 20'66 21'58 38'75 15'01	16°94 16'82 16'16 18'77 13'22 15'23 13'84 15'27
	Gya	Aurungabad Gya Nowadah Jehanabad Arwal Daudnagar Sherrghati Rajauli PakriBarawan	1:41 0:17 0:42 0:90 0:10 1:32 1:65 0:25	0°12 0°15 3°50 0°78 0°70	0.11 0.05 1.68 0.80	0.23 0.00 1.13 0.23	1'00 2'98 0'31 1'11 0'25 0'55 0'27	1.27 1.04 0.21 1.41 0.85 1.40 0.80	0.05 1.08 0.82 2.50 0.10 0.85 0.30 0.30	5 6 6 2 6 3 7 5	4°26 5°44 2°24 6°07 5°80 2°50 2°02 5°28 2°20	11'72 17 98 13'82 14'35 7'88 6'94 10'84	8 73 8 59 8 94 8 66 2 2 2	21.79 29.14 31.52 31.76 31.76 31.76 31.78 13.93 23.88 29.73	15°85 16'16 14'99 15'06 ? ?
	Patns	Patna bumpere Rehar Barrh Bickram Hilsa	0°62 0°69 0°74 0°64 0°56	0.60 0.55 0.13 0.50	0.09 0.16 0.30 0.48	0:28	0°35 0°38 0°96 0°30 1°65 0°19	0°57 1°10 1°03 6°80 3°11 0°79	0°08 0°70 0°60 0°60 0°35 0°22	5 7 6 4 6	2*99 8*40 8*61 2*20 6*99 2*74	9:98 9:83 9:51 7:29 19:77 11:02	8 61 8 73 8 52 9 03 1	19:25 18:81 21:82 15:24 83:67 27:69	17:08 16:49 16:46 15:51 ?
	Monghyr	Begooserai Monchyr Jamui Gogri Sheikpura	0°12 0°58 0°73	0.03	0'12	0.02 0.02 0.02	0°13 0°15 1°26 2°43	1'23 2'00 0'58 0'66 0'63	2:46 0:52 1:50 2:49	7 5 7 8	4'18 3'80 5'13 6'58 2'13	7'42 10'43 13'81 16'42 6'13	7.87 8.65 9.08 1	18'94 27'58 38'42 31'47 21'32	15°58 16'86 17'57
	South Bhagul- pore	Bhagalpore Barka Kelgeng Bangaon	1'13 1'57 0'12	0°11 0°70	0.09	0.03 1.20 0.10	1°59 0°76 0°30	0.50 0.59	0°90 0°67 0°40 4°12	6 7 5 2	3'94 6'75 1'69 6'18	12'44 8'92 16'85 13'32	7.84 7.98 1	25:69 21:49 33:68 25:81	17:19 17:67 9
	Sonthal Pergunnahs.	Rajmehal Godda Pakour Nya Doomka Deoghur Jamiara Mohasama Nanihat	0°95 0°13 0°20 1°92 0°45	0°43 0°09 0°15 0°09 0°37	0°14 0°50 0°08 0°45 0°13 0°65	0.53 1.70 6.07 0.86 1.42 1.72	0°60 6°04 9°23 6°66	0°29 0°20 1°36 0°07 0°19 1°99	0°18 0°65 0°23 2°08 0°53 0°72	5 6 7 7 7 6	1'37 4'60 2'00 4'04 4'34 5'90	7*33 13*45 16*79 14*95 10*82 13*17	9:96 7:93 9:97 9:47 9:96 9:77 ?	23°32 27'41 36'78 31'89 23'89 35'57	28:33 17:12 23:51 21:34 20:33 20:33 7 P
CHUTIA NAG-	Hazaribagh	Pachamba (Giridi). Hazaribaşh Semtaşurah Mahudi Hil's Jhoomra Hills Barhi Chatra Karapdaha Ramghar	0°19 0°27 0°44 0°70 0°25	0°69 0°13 0°49 0°22 0°35 0°57 0°80	0°22 0°07 1°46 0°80 0°05 0°46 1°19 0°40	1'69 1'66 6'52 0'30 1'70 1'50 0'54 0'75	1'00 3'39 0'50 1'10 2'10 0'40 0'69	0°70 2°22 0°54 2°70 0°20 2°55 1°74	0°43 0°25 0°44 0°90 1°03 0°08 8°15 2°10	7 6 7 6 7	4'31 7'99 3'00 6'90 5'55 5'34 6'98 4'05	11.91 17.40 11.47 14.70 14.08 13.09 13.55 9.25	9'09 9'77 9'93 9'68 12'78	31'49 27'18 20'19 29'60 22'79 21'10 31'13 19'84	18'84 18'43 19'01 18'79 24'30 P
	Lohardugga	Lohardugga Ranchi Palamow Silli Balumat Hosseinabad	0°75 0°27 4°46 1°00	0°36 0°20 0°49 0°40	0°15 0°89 0°67	1:31 1:21 4:34 1:06	2·35 0·79 0·17	0°89 0°42 0°06	0.00	7 6 6	5.80 3.62 10.10	11'73 6'76 14'65	9:30 10:66 9:03 F	20°28 17°12 23°40	19-27 21-28 16-19 P
	Singbhoom	Chyebassa Chakradhar- pore.	0.85 0.30 0.85	0.16	1.25	1.82	0.16	3·85 0·30	0.06	6	1'88	9°98 7°04	10.80 P	19:17	21.75
	Manbhoom	Ghatsilla Baharagura Purulia Gobindpore Kaghunath- pore.	0°16 0°16 2°45	2.60 1.96 0.03 0.46 1.03	1.81 0.68 0.17 1.07	0.49 1.55 0.35	1'32 0'16 0'04 0'08	3 15 0°37 0°62 1°67	0.04 0.01 0.40	4 6 7 7	1.89 3.91 7.04	9°10 7°61 15°16	9°20 8°94 9	27°13 24°50 19°72 31°61	10°97 17°79 17°79
		Barrabhaom Jhaida Chas	0°25 0°87 0°26	0.10	0°10 1°80 1°25	2:30 1:25 0:68	0.12	0°95 9:79 0°28	0.70	6 5 6	3·85 6·91 3·67	12:20 12:27 6:87	P P	94·79 24·22 22·71	9 9

CALCUTTA, the 29th July 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 25th OF JULY 1890.

Weather conditions during the past week seem to have been influenced by a very shallow depression which, forming at the beginning of the week in the north-west corner of the Bay, moved slowly towards the mouth of the Hooghly, and without being immediately followed by either stormy weather or heavy rain, passed over part of South-West Bengal and Chutia Nagpur. On Friday the 19th, pressure was lowest at False Point after a very slow fall of a thirtieth of an inch, but the formation of the depression was accelerated by a gradually increasing rise of pressure towards the north-west, where it exceeded a twentieth of an inch. Winds had a tendency to take cyclonic directions, but were everywhere feeble in force. Temperature was rising rather rapidly over the eastern half of the province, and falling moderately elsewhere, the rainfall having become much more scattered in East and North Bengal than it had been for some days. In Orissa, Chutia Nagpur, and Behar general rain was falling, and amounts were considerable at many of the stations in the last. On the 20th the slow and rather local fall of pressure continued in the north-west corner of the Bay and adjoining districts, the depression intensifying slightly and the centre appearing to be about south of Saugor Island, where pressure was lowest and about 15 inch below the normal. The wind circulation was cyclonic in Orissa, South-West Bengal, and Chutia Nagpur, but in the other districts the usual easterly or south-easterly directions prevailed, and though there was a considerable increase of velocity from that of the previous day, it still remained below the average. Heavier rain was falling in Orissa, but in the other districts falls were lighter and less general, especially in North Behar and North Bengal, where possibly, owing to the indraught to the low-pressure area, relating the total days for a grant of the control of the contro sion had advanced as far as Bankoora, pressure falling briskly at a few stations in that neighbourhood and slowly over the rest of the province. There was no further increase of in tensity, and it was ev dently beginning to fill up, the area within which defect was more than a tenth of an inch including the greater part of South-West Bengal and Orssa and the eastern half of Chutia Nagpur, and the largest defect being only '13 inch at Midnapore. Wind velocity increased to rather more than 20 miles an hour in the north-west corner of the Bay, so that weather was never stormy to the rear of the depression, vessels arriving from the Bay reporting only fresh or strong breezes with rain squalls and rough sea. Rainfall diminished in Orissa and became more general and heavy in South-West Bengal and Chutia Nagpur, while general light rain was received in the other districts. On the 22nd the depression had left the province, and pressure was lowest in South Behar; but as pressure was rising very slowly in the southern districts, a diffused shallow low-pressure area covered the whole of the western half of the province. Ordinary monsoon weather prevailed, light rain falling at almost all stations, and very few heavy falls occurring; but in South Behar and the north of Chutia Nagpur falls were nearly all between 1 and 2 inches. On the 23rd a brisk rise of pressure set in, continuing on the 24th, and general heavy rain fell in all districts except Orissa. Easterly winds continued in the northern districts till the 24th, but on this day westerly winds were blowing in South Behar and the southern districts, and on the last day of the week over the whole province. It would appear that after the filling up of the depression on the 23rd and 24th the inrush of westerly winds, interfering with the moist current following the depression from the Bay, has caused the much more generally heavy rain than fell about the middle of the week immediately after the passage of the depression.

Pressure—Changes have generally been small, never exceeding a tenth of an inch, and only on one or two days exceeding a twentieth of an inch; these occurring near the depression while passing over the province, and during the brisk rise on the 23rd and 24th. Defect was over a tenth of an inch in the western districts in the early part of the week, and as there was very little change till the 23rd, means for the week are generally considerably below the normal. In Orissa, South-West Bengal, Chutia Nagpur, and Behar, mean defect is over a twentieth of an inch, while in the eastern half of Bengal and Assam it is about four-

hundredths of an inch.

Temperature—Owing to the almost continuous rain, has been everywhere below the nomal, defect in Behar being nearly 2°, in Chutia Nagpur 1·4°, Assam 1·3°, North Bengal 1·1°, South-West and East Bengal ·7°, and Orissa ·5°. On the first day of the week it fell rapidly in Behar and slowly over the western half, while it rose moderately in the eastern half of the province. On Sunday there was an almost general rise followed by slight irregular changes till Thursday the 24th, when a general fall set in and continued till the end of the week

the end of the week.

Rainfall—Though generally light or moderate, almost continuous rain has fallen in all districts, the number of rainy days being one and in Behar and Chutia Nagpur two above the average. The mean falls are consequently everywhere above the normal; the greatest difference occurring in Behar and Chutia Nagpur, where falls are double the normal. In Chutia Nagpur the average fall is 5.2 inches, or 2.4 inches above the normal; in South Behar 4.6 inches, excess being 2.3 inches; in North Behar 4.36 inches, excess 2 inches. The other falls are—East Bengal 4.2, North Bengal 4, Orissa 3.4, and South-West Bengal 2.5 inches, excess varying from half an inch in the last two to 1.4 inches in North Bengal.

Actual falls generally lie between 2 and 5 inches over the greater part of the province, but detached areas occur within which they are usually over 5 inches. These are—Chittagong, Backergunge, and Noakholly in East Bengal, the heaviest falls being 11 inches at Cox's Bazar, 8.5 inches at Fenny, and about 7.5 inches at Rangamati and Bauphal; Julpigoree and the Darjeeling Hills in North Bengal, Bhagatpore, Darjeeling, Kalimpong, and Kurseong reporting more than 10 and several others more than 7 inches; North Bhagulpore in North Behar, and Hazaribagh, Lohardugga, and Manbhoom in Chutia Nagpur. The heaviest falls in Behar and Chutia Nagpur are—Mozufferpore 7.8, Dehree 7.5, Sasseram 7.7, Arrah 14.5, Bickram 7, Hazaribagh 8, Karagdeha 7, Palamow 10.2, Raghunathpore and Jhalda 7 inches. inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 25th of July 1890 :-

	State		TEMPI	BATU	RE.	S.A. SI	7			R	AINFA	LL.		ur with		505
	week.	1	Averag	ges for	week.	above or week.	(of wee	k.	R	ainy da	ys.	Sine of m	e 1st onth.	Since	
METEOROLOGICAL DIVISIONS.	Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week below normal mean of	Average.	Normal average.	Variation	Average number in week.	Normal average num- ber in week.	Variation.	Average.	Normal average.	Average.	Normal average,
Orissa	93.7	73 6	87:0	78'6	82.8	-0.5	3'45	2.91	+0'54	51	4:0	+11	10.67	9.93	24.95	20.80
South-West Bengal	93.3	75'6	88'8	78*4	83.4	-0.7	2.92	2'49	+0.43	5'4	4'5	+0'9	8.66	8.97	26:99	21'84
East Bengal	88'9	73'0	86'2	77.1	81.7	-07	4.50	3:28	+0.03	6.0	5.2	+0.2	13.25	12:17	36.10	34.80
North Bengal	91 3	75'1	88'2	78'2	83'2	-11	4'04	2.63	+1'42	5.2	4.4	+1.1	12 80	11.15	39 94	34'18
North Bohar	91'4	75'5	88:3	78'5	83.4	-1.8	4.36	2.59	+2.07	4.9	34	+1'5	14'40	9.70	25'67	20.28
South Benur	91'4	71.7	87.4	78'8	82.0	-1.7	4'63	2.32	+2.28	6.1	41	+2.0	12.07	8.73	25:94	17.08
Chutia Nagpur	84'9*	70.9*	82'0*	72.3*	77 2*	-1'4"	5.55	2.78	+2'44	6.6	5.0	+1.6	11'14	9.93	22 26	19.60
Assam	93'5	75'8	88'3	77'1	82.7	-1.3			2.00	501		Limit	Aut 1	- 100		13-58

METEOROLOGICAL OFFICE, BENGAL;

· Chyebasss not included.

C. LATTLE,

The 29th July 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 20th to 26th July 1890.

MONTH.		A. M.			TEMPI	REATURE.			E	YGROMETR	Υ.	É
MONTH.	Date,	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 a.m.	Dew point at 10 A.M.	Humidity at 10	Rainfall past 24 hours.
		Inches.			1.	•	0	0	Inches.	•	%	Inches
fuly 1890 """"""""""""""""""""""""""""""""""	20th 21st 22nd 23rd 24th 25th 26th	29·523 ·472 ·482 ·513 ·593 ·6 ·1 ·569	84·4 84·2 84·4 81·4 81·9 83·5 84·3	89·0 89·0 90·0 84·9 86·0 89·0 88·9	9-2 9-7 11-2 7-1 8-2 11-0 9-3	79·8 79·3 78·8 77·8 77·8 78·0 79·6	83·6 84·6 81·6 80·4 83·4 85·1	80-3 81-3 81-5 80-5 78-5 79-7 81-5	991 1·026 1·035 1·028 951 965 1·028	79·0 80·0 80·3 80·1 77·7 78·2 80·1	86 86 87 95 91 84 85	0.04 0.74 0.30 1.56 0.24 0.01
	The mea	n 10 a.s	. press	sure of	the sev	on day	в				Inches. 29.536	
	The mea	n tempe	rature	of the	seven d	lays	•••				83.4	
	The extr The max				peratur	θ	20 6474		**	1000	12.2	
	The mes		200		midity	of the	seven d	ays			% 88	
	The tota	l fall of	rain fr	rom 20	th to 2	6th Jul	v 1890				2.89	

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, INDIA; The 28th July 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of April 1890.

[The delay in the publication of this review is due to the non-receipt of the Gya district return, which was not received in this office till the 23rd instant, or nearly three months after the month to which it relates.]

The deaths registered in forty-five districts of Bengal during the month of April 1890 were 138,245, and correspond to an annual rate of 25.08 per 1,000 of the aggregate population of those districts, which is 65,859,534. The rate is 1.56 higher than the mean rate of corresponding periods of the five years 1885—89, and is also higher than the rate of the corresponding periods of any of the past five years except 1889, vide the figures below—

Sunta Manufer Sunta (Sunta)	April 1885.	April 1886.	April 1887.	April 1888.	April 1889.	Monthly average of five years, 1885—89.	April 1890.
Ratio of deaths per 1,000 of the population per annum	21:36	20*88	22.80	28:76	28'56	25 52	25'08

The following table shows the highest proportions of deaths registered during the month of April 1890, compared with the corresponding month of 1889:—

Districts.		1	atio per	mille	during-	Districts.		P	atio per s	in.	4
		7	pril 1890.		April 1889.			PORTON A PARK	-	-	-
Ex		EOR PAR	Contract of the		The state of the s			Δ	pril 1890.	Δ	pril 1889.
Darjiling	***	***	49.56	***	44.16	Hughli	***		28.44		23.16
Bhagulpore	世 医动性性现象	***	45.36	***	33.96	Pubna		Cre -	27.72	1,4450	29.52
Julpaiguri		***	41.52		44.52	Backerganj	SET REPORT OF THE		27.72	***	
Noakhali			32.64		41.88	Shahabad	***	***	ACCOUNTY HONOR OF THE	***	42.12
THE RESERVE OF THE PARTY OF THE	***	***	11.10.102.7307.8501	***	COLUMN TO SERVICE STATE OF THE PARTY OF THE	THE RESERVE TO SHARE THE PARTY OF THE PARTY	***	***	27.48	***	20.16
Rajshahye	***	***	32.04	***	36.72	Serampore	***		27.24		21.60
Maldah	400	***	31.08	10444	38:04	Birbhum	Se		26.88	10.50	30.48
Hazaribagh	The state of the s	***	30.24		24.72	Patna		***	26.88	***	
Jessore	Service of		29.88		28 68	Gva		NAME OF STREET	Charles of the second	***	18 60
		***	29.76	***		the state of the s	144	***	26.88	***	20:16
Purnesh		444	100000000000000000000000000000000000000	***	98.04	Bogra	***		26.52		28.08
Durbhanga	***		29.64	***	15.24	Howrah	***		25.80		20.40
Monghyr		***	29.16		23.76	Faridpore			25.80	***	37.68
Rungpore			28.56	88076	25.44			111	10002412401.00	***	W
stungpore	***		20.00		20 23	Dinajpur	***	***	25 56	***	33.60

The total mortality during the month under review from the several registered deathcauses is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885—89:—

					Ratio per mille du	ring -
				April 1890.	April 1889.	Monthly average of five years 1885-89.
Cholera	***	***	***	3.00	6.00	3.84
Small-pox	***	***	***	.36	.24	12
Fever	***	***	***	17.64	17.64	15.24
Bowel-complaints	***	100	***	*60	-72	-72
Injury	***		***	.24	-24	24
Other causes	***	***	***	3.00	3.48	2.88

The highest annual death-rates from the several registered death-causes occurred in the following districts:—

Cholora.	Part	Small-pox		Fever.		Other co	iuses.
	Ratio per mille.		Ratio per mille.		Ratio per		Ratio per
Bhagulpore Durbhanga Purneah Faridpore Maldah Monghyr Chumparun Jessore Backerganj Tipperah Mymensing Khulna Dacca Rungpore Howrah Hughli Murshedabad Noakhali Patna	21'84 8'88 8'88 6'84 6'00 5'16 4'44 3'96 3'72 3'24 3'12 3'00 2'76 2'68 2'64 2'28	Chumparun Patna Poori	 2.40 2.16	Julpaiguri Darjiling Rajshahye Noakhali Hazaribagh Pubna Shahabad Rungpore Gya Jessore Dinajpur Bogra Maldah Purneah	mille, 38:76 36:12 28:92 27:24 26:28 24:96 24:24 23:88 23:28 22:92 22:68 22:92 22:62 20:28	Poori	mille 12:24

The mortality of the month under review, according to Sex, Class and Age, was distributed as follows: —

According to Sex.	Ratio per	According	to Class. Ratio per mille.	According to A	ge.	Ratio per mille.
Males Females Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population		Christians Hindus Mahomedans Buddhists Other classes	11·40 25·32 25·20 15·96 20·16	Under 1 year 1 and under 5 years 5 ,, 10 ,, 10 ,, 15 ,, 15 ,, 20 ,, 20 ,, 30 ,, 30 ,, 40 ,, 40 ,, 50 ,, 50 ,, 60 ,, 60 years and upwards		160 80 28 08 13 68 12 12 16 68 16 68 18 96 24 96 36 00 57 36

Detailed information regarding the mortuary statistics of the forty-five districts of Bengal during the month under review will be found in the statement appended.

W. H. Gregg, Dip. Publ. Health, Camb., Sanitary Commissioner for Bengal.

The 24th July 1890.

1			DIVISIONS		BURDWAN		PRESIDENCY BAJSHARYE CHITTAGONG PATTA BRAGULFORE ORISSA CHOTA NAG-	
			DISTRICTS		Bardwan Bankura Brichura Hichbura Midnapore Hughil Serampore	Total (Hughli including	Howrah 24. Pergunah 25. Pergunah Muddea Jesore Murrhidabad Murrhidabad Khuina Dinajpir Rajshaye Rajshaye Rajshaye Rajshaye Rajshaye Murrhidabad Murrhidabad Murrhidabad Julipasigur Darliling Julipasigur Darliling Julipasigur Darliling Julipasigur Darliling Julipasigur Darliling Julipasigur Darliling Julipasigur Raykergan Murrhidah Putas Shalahad Monghyr Rihakupro Purrhen Monghyr Rihakupro Purrhen Monghyr Rihakupro Purrhen Murrhidah Southal Pergunah Cuttack Purrhen Marbhum Southal Southal Ranbore Hansore Hansore Hansore Hansore Hansore Hansore Hansore Ranbohum Singibuum Marbhum	TOTAL FOR T.
		FIELD STATE		Males,	608.296 507.186 507.186 1, 281.165 1, 281.165 174.806		\$16,479 \$60,841 \$60,840 \$60,840 \$60,770 \$60,770 \$60,770 \$60,87	THE 82,663,700
60		NOTTA THOO		Females,	723,528 6 534,616 6 534,616 6 1,272,870 8 847,886 177,589	11	\$18,902 \$12,512 \$12,512 \$12,513 \$12,513 \$13,516 \$13,516 \$13,516 \$13,517 \$13,51	100 33,195,834
				Total.	1,991,823 1,041,752 794,428 2,515,665 663,050 851,965	1,015,005	685,881 1,657,781 1,657,781 1,077,846 1,077,846 1,077,846 2,097,946 2,097,946 1,657,646 1,657,646 1,657,646 1,657,646 1,657,646 1,721,698 1,732,698 1,732,698 1,733,69	1 65,839,534
				Obolera.	888888	17.4	911 28 48 47 47 48 47 47 48 47 47 48 47 48 47 48 47 48 47 48 47 48 47 48 47 48 47 48 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 48 47 47 47 47 47 47 47 47 47 47 47 47 47	17.089
0.00				.xoq-llam8	487882 28782	88	888889	2.410
			DEAT	Povers.	2,074 1,295 1,295 3,496 1,065 661	1,626	11.828	96,873
			DEATHS PROM-	Bowel-complaints.	##= 88 S.	176	李安兴等级公司 11 11 11 11 11 11 11 11 11 11 11 11 11	3,365
				Injura.	887-188	88	8245852525852525852585558558558585858585	1,820 16
				Other diseases.		331	11.1.25.25.25.25.25.25.25.25.25.25.25.25.25.	16,688 138
				Vil censes.	2,884 1,894 1,890 1,573 2	2,372	2, 250	138,245 8
		Disease.	RATTO	Cholera, *	*****	10.8		8.00
	MOR		RATIO PER 1,600 OF	Small-pox.	288888	.36	611	-58
	MORTALITY		04 40 00	Fevers. Bowel-complaints.	17.88 '38 14.88 '48 18.60 '12 16.56 '84 19.20 1'68 19.68 2'40	19-20 1-93	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	17.66
	ACCORDING		POPULATION PER	-Yan[a1	*****	38.	\$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25 \$25	15.
	DING TO			Other diseases.			10.22 + 1.22	3.00
	1		АВНОЖ.	- soanso IIA	4.44 24.24 4.20 29.76 7.56 26.88 3.78 22.68 3.96 28.44 8.72 27.24	3.84 27.93	### ##################################	90.52
			COMPERE	Ratio of deaths per 1,000 of popu-	23.04 8 31.56 8 25.32 11.64 12.65 13.56 14.56 15.56 16	8 27-24	2	8 23.16
9			COMPARISON WITH PRRVIOUS PRRIODS.	month. Ratio of deaths per 1,000 of deaths per 1,000 of popu- lation per annum in the correspond-	a dyes		TOTAL TOTAL CONTROL OF THE STATE OF THE STAT	93.20
				Drevious Jear.	20.58 20.58 20.58 20.58 20.58 20.59 20.50 20.50	93.68	20'-40 117-76 28'-89 28'-89 28'-89 28'-89 28'-89 28'-89 28'-99 28	75,897
			DRATHS	Males.	1,471 1, 1,000 1,000 9,13 863 863 441	1,894 1,		97 62.348
				Females,	1,353 801 801 877 8,263 710 358 358	1,068 81	1,045 1,	18 97.84
90		Sex.	RATIO PBR 1,000 OF POPULATION PBE ANNUM.	Females.	51.15 51.15	81.83	200 00 00 00 00 00 00 00 00 00 00 00 00	17.00
•			vaeve oz a	Ratio of male deaths, 10e female deaths, on the proportion of tality bears to the	181881	181		194

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			DXAGE (MORT	ALIT	Y ACC	ORDI	NG T	0-	4195									Wat !				D 18
		167				Cla	85.							i			1				Age.										
DIVISIONS.	DISTRICTS.		DEAT	HS AMO	rg –		RATIO	PER 1,0	000 OF P		103				1	BATH	8.						KATIO	PRR I	1,000 o	F POP	ULATI	ON PR	B ANNI	UM.	
	ians. b. classes. classes. iists. iists. iins. iins		and under years.	10 and under 15 years.	15 and under 20 years.	and under cars.	30 and under 40 years.	so and under 50 years.		on years and up-	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	and under	50 and under 60 years.	60 years and up- wards.											
BURDWAN	Burdwan Bunkura Birbhum Midnapore Hughli Serampore Total (Hughli including Serampore).	2 3 1 	2,338 1,579 1,446 4,149 1,28 658	486 84 849 805 864 141 505		341 20 307 	26°28 48°60 41°28 18°24	24°96 20°76 28°08 22°20 27°12 27°00 27°12	22'08 21'72 25'68 22'20 33'64 28'32 31'92		19°92 20°76 31°32 	549	202 224 203 585 131 94 225	144 138 104 358 94 78	80 67 205 64 36	125 82	19# 155 588 197 93	363 169 167 508 226 95	151 124 456 159 76	125 131 422 161 74	235 238 674 248 99	201-24 165-48 394-68 140-40 174-00 141-24 161-88	25°56 26°52 35°28	12:36	8°88 9°96 9°84 12°36	15'84 14'64 12'36 17'40	18:24	19°56 13°80 16°32 16°56 25°32 19°56 28°28	26'16 17'16 23'28 25'20 22'20	27'00 35'40 40'32 35'04	53°04 48°48 61°80 59°04 67°44 60°96
PRESIDENCY	Howrah 24-Pergunnahs Nuddea Jessore Murshidabad Khulna Dinajpur Eajahahye Rungpore Bogra Pubna Darjiling Julpaiguri	900	1,088 1,694 1,155 1,849 1,310 980 1,496 689 2,132 530 782 613 1,285	2,984 1,977 1,177 1,743 2,898 2,863 1,296	- 9		11'64 10'56 11'16 	26*04 19*50 18*96 29*52 24*72 22*74 24*96 28*56 31*32 28*08 25*92 41*76	25°32 19°08 18°60 30°48 21°84 25°32 26°16 33°00 26°76 28°44 30°60 41°18	576	#116	254 359 533 558 429 350 503 546 711 336 427 70 514	174 363 355 627 335 337 556 376 191 576 78	118 526 230 555 185 244 210 360 825 154 369 88	123 159 330 116 93 162 242 247 89 235	156 379 127 110 168 279 298 90 222 44	569 226 219 501 456 741 193 254 103	123 288 225 511 242 224 497 404 779 148 250 109	214 201 453 236 160 376 309 618 134 223 73	162 294 138 151 197 175 424 142 147	371 350 517 362 274 284 260 476 149 318 48	163°56 97'89 167'76 129'96 180'96 139'80 172'32 208'92 166'44 253'04 141'60 258'44 381'84	22'08 20'88 32'76 28'32 31'08 23'16 41'04 18'72 23'76 38'40 57'48	10'86 22'92 12'24 19'20 9'84 20'04 12'36 15'12 21'00 25'08	10.20 12.96 21.60 14.88 14.64 25.32 33.60	18°12 28°20 39°96	25'32 18'48 15'60 35'28	16.56 50.40	16'08 14'52 28'20 22'80 15'96 81'71 28'92 34'80 24'48 21'96 63'98	29:40 38:64 46:80 24:12 61:20	67.68 44.16 40.08 52.44 55.92 52.56 45.72 44.28 51.84 46.56 82.68
DACCA {	Dacca Faridpore Backerganj Mymensing Chittagong Noakhali Tipperah Patna	15 6 5 1 1	1,387 1,266 1,167 1,655 362 494 968 5,424	1,975 2,252 3,234 3,474 1,270 1,788 1,679 504	 2 95 	 84 	20'40 26'16 16'08 11'28 20'40	19°32 23°16 22°32 20°04 15°72 27°96 22°80 26°64	18'84 27'60 30'60 19'44 18'96 34'20 20'04 28'32	4-92 21-00	 38.76	571 486 934 575 201 409 387 681	193 524 611 6:4 736 226 499 357 786	296 325 451 541 183 281 220 294	197 225 271 98 103 149	206 178 291 106 94 156 114	354 382 614 207 153 359	326 371 395 563 166 144 269 296	320 337 493 143 130 195	293 247 297 375 147 129 173	407 520 740 231 298 382		34.2 33.36 21.48 18.36 53.40 20.52	10.56 16.20 20.28 12.96 11.64 25.44 11.16	7.98 13.56 13.80 10.58 8.64 14.04 10.80	13.56 20.52 12.60 13.56 16.20	11'04 15'84 13'32 14'64 14'76 14'04 17'16	19°80 18°24 16°20 14°46 16°32 15°96	15'36 24'60 23'64 29'32 17'64 22'32 17'64	35°00 28°80 26°16 31 08 25°08	83°25 58°20
PAINA	Shahabad	 1 6	4,178 4,172 3,660 5,755 3,095 2,830 4,261	602 833 439 762 401 384 525			36°84 37°08 10°92	26*40 27*48 19*39 29*64 18*36 22*80 28*80	30°96 27°12 16°68 29°52 17°76 18°96 33°45	::		528 576 490 622 635 431 633	513 447 827 1,190 592 403 927	252 204 295 641 198 280 359 722	176 154 155 291 103 165 236	157 144 110 262 116 136 156	428 515 316 828 318 360 391	514 519 400 707 284 414 384	657 582 450 603 1 314 331 4 475	696 550 436 666 316 338 502	865 784 620 708 620 352 724	148'08 153'96 132'24 148'32 142'20 116'88 206'04	22°08 21°84 30°48 44°28 25°32 23°76 44°04	10°32 8°85 8°85 19°08 7°08 13°68 15°28	9'96 9'00 7'20 13'68 5'16 11'18 13'80	18:44 13:44 7:80 17:52 9:36 14:16 13:80	14°28 18°84 9°12 23°04 10°56 14°88	19:56 20:76 12:24 21:00 9:72 18:24	34°80 35°28 19°80 25°68 15°60 22°48	58'56 58'08 30'84 46'80 26'88 39'00	81°96 73°20 48°24 60°24 63°88 44°16
ORISSA { CHOTA NAG- FORE.	Bhaguipore Purueah Maldah Sonthai Pergumahs Cuttack Poori Haissore Hazaribagh Lohardugga Singbhum Manbhum	1 1 1 2 1 16 3	6,841 3,012 1,067 1,233 2,911 1,806 1,660 2,469 1,268 798 1,828	591 1,590 776 165 58 21 30 270 255 9		727 1 47 1,286 	20'76 3'84 5'04 29'28 21'72 5'28 12'00	46'44 33'48 33'72 17'40 19'92 21'72 21'72 31'92 17'40 21'36 23'16	38'16 24'72 28'20 18'12 14'64 17'88 15'12 36'48 39'48 46'32 28'68		14·28 2·46 6·48 24·60	560 32 419 536	1,067 376 321 346 340 168 181 338 311 111	722 8:5 150 207 211 125 79 149 193 69	320 102 115 127 71 43 92 116 33	106 123 177 71 72 63	1,031 764 247 252 299 186 164 252	1,048 736 207 206 286 156 156 315 335 91	715 602 7 154 3 161 282 3 176 3 144 2 295 3 308 98	588 380 103 194 287 191 165 300 266 82	543 487 216 199 401 362 267 450 398 63	237-00 105-95 144-12 124-08 178-94 252-48 244-80 185-16 124-80	56 56 21 12 46 08 15 24 17 88 17 76 18 96 25 68 15 66 21 60	27.72 15.14 16.44 8.52 9.36 11.76 6.72 9.48 8.52 11.04	31-32 20-16 16-68 7-56 7-92 9-48 4-92 9-36 7-68 7-68	39:24 21:36 21:24 12:96 15:48 12:72 11:76 9:96 14:53 14:46	36 84 29 40 24 60 13 08 11 76 14 04 12 12 16 68 14 28 12 72	41°16 29°88 24°60 11°64 14°28 15°12 14°16 23°64 17°76 16°96	45°00 38°40 97°48 14°88 21°12 25°08 18°60 4 37°08 5 27°90 2 30°00	65'04 45'36 32'64 29'64 29'76 38'76 36'24 65'04 41'88 43'68	68°04 62°76 60°00 36°96 42°72 87°84 66'68 124°08 73'44 38°76
	TOTAL FOR THE PROVINCE.	98	90,835	44,909	106	2,802	11.40	25.35	25*20	15.96		20,754		11,343	-		-		13,296		-		-	13.68	1		300 C. 115 N	18'96	-	-	57:30

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 12th July 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 12th July 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 18·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·3 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1886 and 1889—vide the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890.
Ratio of births per 1,000 of the population per armum	23'2	17:7	18'5	19.9	18*2	19'5	18'3

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

		VEEKS 1	ENDING-			- 01	WEEKS 1	ENDING-	
Towns	21st June 1890.	28ch June 1890.	6th July 1890.	12th July 1890.	Towns.	21st June 1890.	28th June 1890.	5th July 1890.	12th July 1890.
Burdwan Midnapore Hughli and Chinsural Serampore Utterpara Howrah Bali Kishnagar Rannghat Santipore Jessore Rampore Beauleah Darjiling Daeca	7'6 8'1 14'8 29'4 9'4 15'5 10'5 9'5 8'8 59'3 7'8	19°8 20°1 18°1 27°5 9°4 13°2 14°0 20°5 6°0 17°5 34°2 9°7	16'8 17'0 26'3 25'3 25'5 37'7 21'2 10'5 1'9 18'0 12'3 6'1 34'2 14'8 11'0	13.7 23.2 18.1 13.7 28.1 17.2 28.1 17.0 18.0 10.5 6.1 18.4 37.0 9.7	Narainganj Chittacong Comiliah Patna Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Momshyr Purneah Poori	58'0 23'5 11'5 7'8 12'3 17'9 18'2 17'3 8'0 17'2 23'5	12'4 21'1 38'5 11'4 21'9 10'8 15'8 28'3 8'0 21'7 24'4 3'5 14'7	4'1 42'3 84'7 10'1 14'3 14'4 13'4 13'4 7'0 29'9 14'5 17'3 28'1	20°7 28°2 3°8 11°4 28°4 28°9 18°2 22°8 12°1 19°9 38°9 38°3 14°7

It will be seen that last week the highest birth-rate was returned from Monghyr (38.9), and the lowest from Purneah (3.5). No births were registered during the week in Utterpara town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 21.4 per 1,000 of the population. The rate of the week is 5.2 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—vide the figures below—

	1885.	1886,	1887.	1888.	1889.	Weekly average of five years, 1885—89.	1890,
Ratio of deaths per 1,000 of the population per annum	36.5	23'5	24'0	21.1	28'6	26.6	21'4

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

					WEEKS	ENDING	-	Mar. 44				WEEKS	RNDING	-
Towns.			21st June 1890.	28th June 1890.	5th July 1890.	12th July 1890.	То	wns.		21st June 1890.	28th June 1890.	5th July 1899.	12th July 1890.	
Burdwan Midnapore Hughli and the Serampore Utterpara Howrah Ball Kishnagar Ranaghat Santipore Jessore Ramporo Be Darjiling Dacca		ah		15'3 20'1 19'7 28'3 12'0 17'5 6'0 16'8 36'7 23'6 37'0 17'5	19°8 26°3 27°0 20°4 8°6 10°5 7°0 12°2 15°8 59°3 19°5	16'8 21'7 23'0 29'4 9'4 8'6 24'6 13'2 6'0 14'0 18'4 15'8 51'9 21'4	22'9 23'2 21'3 29'4 18'9 11'3 3'5 3'8 18'0 8'8 30'6 10'5 22'2 15'6	Narainganj Chittarong Comillah Patna Gya Arrah Mozufferpore Darbhangs. Chupra Bhagulpore Monghyr Purneah Poori		1111111111111	16'6 16'4 11'5 15'3 34'8 37'1 26'8 21'2 14'1 18'1 17'2 10'4 363'0	20°7 23°5 34°7 14°3 27°3 46°5 56°5 26°0 19°1 16°3 19°9 27°7 245°5	8°3 87°6 46°2 16°3 26°0 51°1 31°8 17°3 8°0 15°4 9°0 10°4 86°0	24°3 39°1 26°3 32°1 35°9 31°6 23°6 21°1 15°4 25°3 13°9 65°0

It will be seen that last week the highest mortality occurred in the town of Poori (65.), and the lowest in Bali (3.5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Choler	ra.		Fever.		Other	causes.
	Ratio per			Ratio per mille.		Ratio per mille.
Arrah Midnapore Mozufferpore Poori Serampore Chupra Monghyr	15·5 13·9 12·2 10·5 7·0 4·5	Poori		30·6 29·3	Poori Serampore Gya Monghyr	16·8 13·7 13·0 9·9

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 3.7 from cholera, against 3.1 per 1,000 in the preceding week; 5 from small-pox, against the same ratio; 8.6 from fever, against 8.5; 2.1 from bowel-complaints, against 1.9; 5 from injury, against 4; and 6 from other causes, against 5.6 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.

According to Class.

According to Age.

	Ratio per mille.		1	tatio per mille.			atio per
Males Females Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population		Christians Hindus Mahomedans	:	22:4 22:7 18:4	Under 1 yea 1 and under 6 " 10 " 15 " 20 " 80 " 40 " 60 years and	5 years 10 " 15 " 20 " 30 " 40 " 60 "	196·7 29·7 13·7 15·7 10·9 11·3 13·1 12·5 22·8 46·7

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 28th July 1890.

Sanitary Commissioner for Bengal.

	Selection of the select			SUFFIEM												Ž.								, dy								
13			deaths, deaths, or propor-	Ratio of male dependent of the concurrence on the concurrence on the tion such more and the total male and population.	101	146	110	143	13	106	No male	No female	death.	175	118	151	96	213	21	121	81	25	7.9	268	8	135	203	88				116
		Sex.	RATIO PER 1,000 OF POPULATION PERANNUM.	Females.	21.7	18.8	19-7	24.1	1.13	11.0	1.5	1	1	6.2	58.4	17.3	42.6	6.4	25.2	32.2	29.1	15.3	357	18.2	29.7	20.0	1117	8.91	21.5	1.9		197
		60	RATH 1,0 POPU PERA	Malos.	9.83	3 27.6	\$ 25.0	34.5	171	1117	1	7.8	28-7	5 11.4	32.3	8.4.8	5 11.4	7 20.7	8.9	6.54	8 25.9	14.5	3 28.5	8 54.6	24.8	3 26-2	1.118 9	0.51 6	9.63	184	0100	0.88
			ВЕАТИВ ,	Females.	8	_	-	•				.:				_		-		-	-	03	96		15	1 12		8	3 18	60	1 19	193
			THE STATE OF THE PARTY OF THE P	Males.		2	0	-	-	113	1		31	0	*	8	6	4 17	89	9	93	81	0	1 22	11	8 17	0 15		0 16		25	1 48
-		bre-	1,000 of po	Katio of deaths per lation per annua vious week.	9 16.8	2 21.7	3 23.0	50.00 P	6 6.	9.8	9.55 9	8 13.3	0.9	8 14.0	9 18.4	5 15.8	6.19	F.12 9	8.3	9 37.6	6 46.3	9 15.3	0.96 1	9 31.1	6 81.6	6 17.5	0.8	4 154	3 9.0	9 10-4	0.98	1.08
	1		PRE	All causes.	6.68	53.5	16	68	18.	111	69	9	18	90	30	10.5	95	12	5 24	6-68	98	14	35	35	18	53	18	15	.22	18-9	.29	81.4
9	NG TO		ALTION	Other diseases.	1.5	9.4	8.6	13-7	5.6	9.6	.00	1.9	0.9	1	1	61	1	57	16.5	1	1	2.9	13.0	1.5	91	7.9	2.0	3.6	6.6	1	16.8	0.9
	ACCORDING		1,643 op Population Annum.	•KinjaI			1	0.8		P	1	1	1	1	1	1	1	1.9	1	4.7	8.8	1	1	1	1.5	I	1	1	1		1	1 %
			NOVE P	Bowel-complaints.	25	1.2	9.1	8.8	4.6	1.7	1	1	1	1	1	9-6	4.4	1.3		4.7	8.8	60	1	F. 6	7.3	1.6	4.0	1	6.	3.5	- P	1.61
	LITY		R 1,00	Fevers.	13.7	3.1	9.9	2.0	1	6.6	1	1.9	3.8	5.3	30.8	5.3	14.8	6.2	8.3	141	19.3	10	171	15.5	1-80	11.0	3.0	10.0	6.0	10.4	29.3	8.6
	MORTALITY		FIO PER	sxoq-Ilam8	1.5	1	8.00	1	1	1	1	1	1	1	1	1	1	9	1	60	1		1	1.5	1.0	1	2.0	1	1	1	di di	10
	H	Disease	RATIO	Опология		13.9	-1	7.8	1	1.7	1	1	0.9	3.5	1	1	ŧ	1	1	1.0	1	1.9	2.0	15.5	12.5	3.1	70	6.	2.5	1	10.2	3.7
		О		4808udo UL	15	15	13	15	2	80	1	03	00	10	19	*	co	24	9	11	*	46	4	30	98	30	31	17	98	4	31	437
				Other diseases.	-	00	9	7	-	90	7	1	1	1	1	1	1	8	4	00	i	17	19	1	01	10	2	•	п	1	90	81
			į	.Kantal	01	1		1		1		1		ŧ	1	1		60	1	91	-	1	1	1	-		1	1	1	1	1	=
			Билтив риом	Bowel-complaints.	01	1	1	01	1	63	1	1	1	1		-	*	01	i	01	1	7	1	01	9	01	4	1	1	1	61	01
			DEAT	Fevers.	o,	01	•	1	1	ю	ı	-	1	63	ю	04	01	10	64	9	10	16	23	13	9	13	93	12	11	63	14	175
				Small-pox.	-	1	01		1	1	1	1		1	1	1	1	1	1	,	:	1	ı	1	1	1	oı	1	1	1	03	=
				Cholera.		6		4	1	83	i		1	61			1	1	1	90	ı	9	62	13	10	•		1	10		10	76
		16	R CO GAGLA	Ratio of male birth	8	36	555	000	ı	130	09	80	20	200	No female	133	150	88	99	n	No female	to St.	153	81	150	163	140	175	104	No female	birth.	109
			000 000 U.S.W.	Total.	18-7	63.6	1.81	13.7	1	17.9	1.88	0.41	0.81	2.01	6.1	18-4	9.48	2.6	20.2	20.00	00.00	511	59-4	6.88	18.3	8.55	1.61	6-61	38-9	3.0	14.7	18-6
0		•	PER 1, ULATI	Fomelos.	2.	17.0	9.11	0.5	1	7.4	17.5	2.6	12.0	1.1	1	7.9	14.8	1.1	12.4	16.4	1	90	9.11	13.1	00 1-	8.6	0.9	91	19.0	1	\$.8	8.7
	979979	KIH	RATIO PER 1,000 OF POPULATION PER ANNUM.	Malos.	6.1	97.0	9.9	11.7	1	9.7	10.2	7.6	0.9	8.60	-5	2.01	01 02 03	9.3	8.3	11.7	83.00	10.0	17.8	8.01	6.01	14.5	2.0	12.7	19.9	10 02	6.9	9.9
		4		Loiak.	0	32	11	1	1	30	00	0	00	6	1		10	15	2	13	1	35	43	80	15	66	18	95	43	1	2	371
			NUMBER OF-	Females.	ю	п	1	1	ı	13	ю	13	93	1	ı	60	01	Ħ	60	-	1	18	11	п	9	п	10	00	21	,	4	111
			NUMB	Males.	4	4	**	9	1	17	8	•	1	10	1	•	8	•	01	10 .	1	11	98	6	6	18	4	14	33	1	60	194
	-	NY.		.fatoT	34,080	33,560	51,687	36,496	8,510	818'06	14,815	27,427	8,683	29,687	8,495	19,791	7,018	191'08	12,561	22,130	13,506	160,237	76,121	43,465	48,749	960'99	019,13	57,453	57,520	15,016	24,784	1,061,574
	3	FOFULATION		Fenneles.	16,017	16,633	15,899	12,937	2,464	37,669	6,979	14,914	4,655	15,979	3,665	9,025	2,439	87,379	4,956	8,790	5,353	81,475	87,831	22,505	19,658	32,322	26,554	27,813	29,566	6,553	11,687	510,588
ALC: NO.	a Co	2		Malos.	18,063	18,927	15,858	13,559	3,046	53,153	7,836	13,263	4,028	18,708	088'9	10,766	4,579	42,782	7,605	13,340	8,153	78,762	88,290	20,960	23,084	38,774	25,116	29,640	28,154	8,463	18,947	\$50,986
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			NAMES OF MUNICIPALI.	TIES.	Bardwen	Midnapore	Hughli and Ob	Serampore	Utterpara	Howrah	Bali	Kishnagar	Renaghat	Santipore	Jessore	Rampore Bea	Darfilling	Daces	Narsinganj	Chittagong	Comillah	Patna City	Gya	Arrah	Mozufferpore	Durbhangs	Chupra	Bingulpore	Monghyr	Purneah	Poori	Total
San Printers -	1		DISTRICTS.		Burdwan	Midnapore	Hughli B	Sommone 5	7	House 5	7	J	Nuddes	1	Jessore	Rajshahye	Darjiling	Daces	~	Chittagong	Tippersh	Patms	Gya			i g	1	:			Foori	

MAMES OF TIES. In Burdwan Midnapore Midnapore Midnapore	Parit Hindus.	Hindus. Mahomedans. Buddhists.	1	Class.			1			100		1			-												
D Burdwan Burdwan Midnapore Midnapore Hughli and Chin Sarampore Rishmagar Rishmagar Ranaghat Santipore Santipore	Part of the second of the seco	Mahomedans.	108					10											Age.								
b Burdwan Midnapore Hughli and Chinsurh surch Serampore Utterpara Ball Kishnagar Kishnagar Sansibore	**************************************	.еперешения.			EATTO THE	RATIO PRE 1,000 OF POPULA- TION PRE ANNUM.	O OF P	W.	1000				РАКТИ			C				RATIC	**************************************	ALTIO PRE 1,000 OF POPULATION	OPULATI	PER	ANNUM.		
n Burdwan Midnapore Rughii and Chin- surah Suranpore Utterpara Howrah Rishnagar Kishnagar Santipore	1 2 1 1 2 2 1		Buddhists.	Other classes.	,ensiteindo	.eubnit	Mahomodana. Buddhista.	Osher classes.	Under 1 year.	stast & rebnu bua!	S and under 10 years.	10 and under 16 years.	years.	90 and under 50 years.	years,	years.	years.	Under 1 year.	land under 5 years.	01 Tobat has 8	of rebnu bna of	years.	20 and under 30 years.	30 and under 40 years,	40 and under 50 years.	50 and under 60 years.	-dn puu suud nb-
Hughii and Chinsurah surah surah Sarampore Utterpara Howrah Rishnagar Kishnagar Ranaghat Santipore	212221	90	1	1000	1	26.3	16.2	- 1		1	-	91	01	1	•	-	03	\$15.2	200	500		613 833		9.53	9.11.8	48-	-
Hughli and Chin- surab. Surabore Utterpara Howrsh Kishnagar Ranaghat Santipore	1 2 2 2 1	1	ı	1	+	30.1	1			1	:	94	1	04	01	*		2	0.04			.9	14.5		8.99	3 25-2	8 26.6
Rerampore Utterpara Howrab Rishmagar Ramaghat Santipore	2 2 2 1	01	ī	1	1	9.55	16.9		10	01	1	1	1	1	1			8 323-8		6.98	- No	-0	34	9.1	1 12.6	1	75.5
Howrah	2 2 1	ī	ı	1	ī	30.8	•		-	1	61	1	-	1	ю	1	-	2 78-2	1024	8.83	100	8.4 23.8		62.3	3 15.4	27-2	3 74.5
Howrsh	15		1		-	19.2	1		1	1	1	I	i	1	1		1	1		9.831	50.0	1	4	0.65		į	1
Kishnagar	1	•	1	1	27.2	16	101		20	1	1	1	01	•		01	1	1 198	_	*.6	5715 5715	7.9 14.2	9,	90	1. 8.8	8.00	920
Kishnagar Ransghat Santipore		1	3	1	1			-	1	:	1	1	1	1	64			148.0	9	i	-		1	1	1	1	
Ranaghat Santipore	-	1	i	1	ı		6.3		1	1	1	:	I	7		:	1			1	770	50	10.8	955	1126	756	
Santipore	1	ga .		ı	1	8.0	16.9	1	ı	1	i		ı	1	1	-	1		4.29	***	1	Sp. /A	34.2	1	8.19		
The state of the s	10	1	1	1	:	18.6	•	•	-	:	ı	i	1	1	-	1		1 61.6	-	1		1	10.6	1	0	1	Cont.
desions desions	I	10	1		1	1	0.89	1	-	01	i	.01	1	1			-	268.0	1.0 210.2				1	1	1	I	9
	89	-		1	;	15.7	6.9		1	;	1	1	i	63	1111			110		25.0		10		10	1	1	-
Darjiling Darjiling	60		:		1	34.0	•	1	-	1	ı	ı	1	1		1	1	459-8		6.08		1		36.3	1 00	1	
Dacca Bacca	16	00	ı			9.05	9.01	1	90		61	1	ı	•	1		•	5-58	60	28-2 10-1	19	11	700	9	9 9	43.6	-
	-	9	1	ı	1	1	9.09	1		1	1		1	ı			07	146.0	10	1	1731	8.4					
50	89	13	1	i	65.3	4 6.96	4.5		00	1	61	1	1	10	7	61	-	1 277		9.17	100	21.2	2.99		8 48.1		
Tippersh Comillah	09	9	1		1	17.5	35.50		1		i	1	1	·	1	•					200	10		26.1	1 79.1		-
Patna City	4	10	1	1	1	17.9	6.9	•	10	00	4	93	1	10	*			7 120		28.2 12.4		7.8 4.7	E	6.8 0.6	6.2	5 11.0	-
II II III III	4	9	1	ı	1	35.5	19.4	-	16	2	1	1	ı	ı	65	10	89	13 464	00	40.8		I E	1	19:3	.3 26.6	23	7 181.3
Shahabad Arrah	20	10		1	ı	53.5	6.15		8		i	60	1	60	-71	1		3 333.0	•	6.99	**	35.3 16.3	19.0	-9	3 III	9	4 547
Mozufferpore Mozufferpore 1	30	10	1	1	233.2	34.6	8.08		1	2	61	9	1	01	89	1	-		6	106		78.6 17.9	12.1	1 22	7.01	10.	0 647
Durbhangs Durbhangs	83	90	1	•	1	9.83	1.83	1	80	10	9		1	+	1	94	01	\$ 267-5	91	6.62 5.5			15.6	9	14.0	.83	1 48.8
Sarun Ohupra	11	•	1	1	101	22.3 E	17.5	1	10	1	80	-	01	60	1	-	89	2 184.3	90	28.5		10.4 80.0	-0 16.8	9 6	7 8-6	25.	7 801
Bhagulpore Shagulpore	13	•	1	1	1	17.0	121	1		89	01	1	65	1	1		1	1 174-9	94	8-8	(5)	8.3 87.8	65	8.	9	12	9 14.4
Monghyr Monghyr	19	6	1	1	1	22.1 37	37.3	1	10	10	1	1	1	69	01	1	60	3 350-2	62	90	The state of	9.1	15.	711 III	7 8-3	88	65
Purneah Purneah	91	01			-	11.3	18.4	Neg	100	1	1	01		-	1	1	1	1887	7	1	8	0.48	15.8	90			1
	80	-	1		e I	63.8 247	9.47.8	1	80	03	63	01	1	63		03	99	6.719		6.19		65.4 28.0	.0 59.2	2.19	8.13	8	9 959-1
TOTAL 3	\$30	108	1	64	28.4	22.7	18.4	;	96	250	8	83	17	1 8	13	30	155	29 196-7		28.7		15.7	11.3	3 18.1	1 12.5	22.8	8

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 26th July 1890, as compared with the corresponding week of the previous year.

	9.9	WEEK R2 267	NDING SATURI TH JULY 1890.	PAY, THE	WEEK EN	DING SATURE 7TH JULY 1889	AY, THE
NATURE OF CAS		Number of boats.	Weight of cargo.	Tollage.	Number of boats,	Weight of cargo,	Tollage.
		No.	Mds.	Rs.	No.	Mds.	Rs.
Jute Firewood		364 9 84 77o	62,525 3,775 46,675 2,09,365	926 64 684 2,728	252 8 76 725	45,200 3,625 30,050 1,75,775	712 67 455 2,492
Tot	al	1,232	3,22,340	4,402	1,061	2,54,650	3,726

Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of May 1890, as compared with the same month of the previous year.

		189	00.	188	89.	Tot	al.		
STAPLES.	X.	Up.	Down.	Up.	Down.	1890.	1889.	Increase.	Decrease
		Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
Cottor, raw	= =	1,387	8	2,156 1	11 19	1,577	2,167 20		590 12
1.—European	= =								
a.—In bales and bundles b.—In boxes	= =	804	 1	388		304	893	- T	89
a.—In bales and bundles b.—In boxes Grains— 2.—Rice 5.—Others		29 105	46 128	27 44	124 1,168	75 283	151 1,219		76 979
Hides and skins - 1.—Hides of cattle— a.—Dressed)							
b.—Undressed 2.—Skins of sheep, &c.— a.—Dressed b.—Undressed	= =	}	15		26	15	26		11
Inte- 1.—Raw— 5.—Unscrewed 2.—Gunny-bags and cloth	= =	₉	59 33	21	273 24	59 62	273 45	17	21-
Metals— 1.—Copper, unwrought 2.—Brass, unwrought 3.—Brass and copper, wrought	E 5	88	3	66	21	91	87	ASSET 1	1 1
6.—Iron 6.—Others	= =	}						V V	
2.—Kerosine	= =	184 258	===	87 158		134 258	87 158	100	
2,—Rape and mustard 3.—Tii or gingelly 4.—Niger 5.—Castor	= =	100	302	126	1,589	408	1,715	****	1,307
6.—Poppy 7.—Others Provisions— 2.—Betel-nuts		35	1,772	3 81	57 196	1,772	60 277	1,712	183
8.—Others Railway plant and rolling-stock lugar—	= =	365	==	147 409	18	187 365	165 508	22	143
1.—Drained	= =	} 61 17	490 58	17 58	2,362 65	551 70	2,379 123		1,828
1.—Unmanufactured 2.—Manufactured		} 592	425	365	6,287	7,280	10,531	2,234	5,485

CALCUTTA, the 26th July 1890.

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of May 1890.

	Increases.		Tons.
	Betel-nuts Principally from the Bengal Central Flotilla Company.	· ···	1,713
	DECREASES.		
	Coal		590
	The decrease is due presumably to there being a sufficiency of stock at Bongong and Khoolna.		214
	The decrease was in despatches from Khoolna, and is said to be due to the dullness of the market. Seeds The decrease was general throughout the district, and is said to be due to short crops. The market in	Calcutta	1,307
	also bad. Sugar The foregoing remark applies to this item also. Maslandpar, Gobardanga, Jadabpur, Nabikargacha, and Jessore are the principal sugar-manufacturing stations, and all exhibit decrease; that	haran,	1,828
Jhi Jhi	kargacha, and Jessore are the principal sugar-manufacturing stations, and a result of the kargacha being 18,379 maunds.	100	P) (Par
	F. P. C	QUINL	N.

Weekly Return of Traffic Receipts on Indian Railways.

Examiner of Accounts.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 1,5251 miles open,

	COACHING	TRAFFIC.	MERCHANDISE TRAI	AND MINERAL	Other earnings		TRAFFIC	TRAIN-MILE	s RUN.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total.
	200200	Rs. A. P.	MDs. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.		N a comp	Allen de
Total traffic for the week Or per mile of railway	233,176	2,37,670 0 0 155 12 9	19,43,891 10	4,20,996 6 0 275 15 7	19,072 0 0 12 8 0	6,77,738 6 0 444 4 4	65,2081	78,551	143,759
For previous 2 weeks of half-	408,244	3,94,158 13 0	34,39,786 0	7,54,949 7 0	32,052 10 0	11,81,160 14 0	112,7572	142,3752	255,188
Total for 3 weeks	641,420	6,31,828 13 0	53,83,677 10	11,75,945 18 0	51,124 10 0	18,58,899 4 0	177,9661	220,926	898,893
COMPARISON.					-24			* 110	Alukasika
Total for corresponding week of previous year Per mile of railway correspond-	238,065%	2,42,015 14 2	24,94,255 20	4,99,686 0 3	21,061 0 9	7,62,762 15 2	65,319	93,549	158,868
ing week of previous year Total to corresponding date of previous year	788,906	. 158 10 4 7,42,819 1 8	68,23,527 30	327 8 11 14,58,875 5 9	13 13 11 50,038 2 7	500 0 2 22,51,232 10 0	193,777	275,794	469,571

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIP 2	TS FOR WEED OTH JULY 18	ENDING 89.		rs FOR WEEK TH JULY 1890			PRIL 1889 TO 20: JULY 1889.			PRIL 1890 TO 19: JULY 1890.		Total	Total
Mean mileage worked.	Receipts.		Mean mileage worked,	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week,	increase in 1890.	decrease in 1890.
1,525\$	Ra. 7,62,763	Ra. 500	1,525}	Rs. 6,77,738	Rs.	1,5251	Rs. 1,42,77,983	Rs. 585	1,525%	Rs. 1,29,97,950	Rs. 533	Re.	Rs. 12,80,033

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 573 miles open.

	COACHING	TRAPPIC.	MERCHANDISE A	IC.	Other earnings		TRAFFIC '	CRAIN-MILE	BUN.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total.
		Ra. A. P.	MDs. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.		100	
Total traffic for the week Or per mile of railway For previous 2 weeks of half-	10,813	5,407 10 0 94 8 8	40,062 20 700 20	2,488 5 0 43 8 0	38 4 0 0 10 8	7,934 3 0 188 11 4	1,043	558	1,596
year	17,396	8,416 14 0	73,391 10	4,369 9 0	60 4 0	12,855 11 0	1,670	1,206	2,876
Total for 3 weeks	28,239	13,824 8 0	1,73,453 30	6,857 14 0	107 8 0	20,789 14 0	2,713	1.759	4,472
COMPARISON.				at er er					
Total for corresponding week of previous year	10,235	5,195 7 4	46,479 10	2,460 0 0	27 8 3	7,682 15 7	923	819	1.742
Per mile of railway correspond- ing week of previous year	179	90 13 3	812 30	43 0 1	0 7 9	184 5 1	*****		
Total to corresponding date of previous year	30,224	15,600 2 0	1,66,749 10	7,980 11 0	112 1 9	23,692 14 9	2,668	2,119	4,787

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, duted 23rd July 1883.

	B POR WEER TH JULY 188			TH JULY 188			PRIL 1889 TO 20 JULY 1889.			RECRIPTS FRO PRIL 1890 TO 18 JULY 1890.		Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked,	Total receipts.	Per mile worked per week,	increase in 1890.	decrease in 1850.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
573	7,683	134	57)	7,934	139	578	1,37,689	150	57}	1,48,403	162	10,714	

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 221 miles open.

	COACHING	TRAFFIC.	MERCHANDISE TRAFF		Other earnings	Total	TRAFFIC	TRAIN-MIL	ES RUN.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	earnings.	Conching.	Merchan- dise,	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week Or per mile of railway	17,907	4,852 1 0 195 9 7	3,696 80	131 12 0 5 14 9	7 10 0 0 5 6	4,491 7 0 201 13 10	913	55	968
For previous 2 weeks of half-	36,923	8,957 15 0	8,598 0	806 0 0	13 8 0	9,277 7 0	1,545	105	1,650
Year Total for 3 weeks	54,829	13,310 0 0	12,294 30	437 12 0	21 2 0	13,768 14 0	2,458	160	2,618
COMPARISON.								中心原用的	
Total for corresponding week of previous year	17,094	4,000 0 11	5,572 10	193 14 0	6 1 6	4,200 0 5	931	87	968
ing week of previous year Total to corresponding date of		179 12 5		8 11 5	0 4 5	188 12 3		*****	
previous year	64,4474	15,041 3 4	18,528 20	587 14 0	9 7 6	15,638 8 10	2,745	115	2,860

Errata.—Receipts per mile of railway shown in the approximate return for the first 12 days of July 1890 as for coaching Rs. 412-9-8 and for merchandise and mine all traific Rs. 3-12-1 should be Rs. 402-9-8 and Rs. 13-12-1 respectively.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS 20	S FOR WEEK TH JULY 188	ENDING		rs FOR WERK TH JULY 180			RECEIPTS PROPRIE 1889 TO 2 JULY 1889.			PRIL 1890 TO 16 JULY 1890.		Total	Total
Mean mileage worked.	Receipts.		Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease in 1890.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
t2}	4,200	189	901	4,491	. 202	221	98,276	276	221	99,097	278	821	

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for first 12 days of July 1890, on 767 miles open.

	COACHIN	G TRAFF	ic.			FFIC.	L	Other earnings (estimated),		Total	TRAFFIC	TRAIN-MILE	S RUN.
	Number of passengers.	Conchi		Weight carried,		Receipts.		steam-bont,		earnings.	Coaching.	Merchan- dise.	Total.
Will Charles		Rs.	A. P.	MDS.	8.	Rs. A.	Р.	Rs. A. P.		Rs. A. P.			
Fotal traffic for 12 days Or per mile of railway For previous weeks of half-	310,850 203	1,18,680 77	0 0	7,01,840 408	0	1,36,630 0 89 0	0	22,530 0 0 *2 0 0	2	,77,840 0 0 168 0 0	38,965	52,130	91,000
year	******	*****		******		171111		*****		******	******	*****	(Cortons
Total for 2 weeks	310,850	1,18,680	0 0	7,01,840	0	1,36,630 0	0	22,530 0 0	2	77,840 0 0	38,965	52,130	91,095
COMPARISON.						1 . 198							110211
Total for corresponding 13 days of previous year	315,010	1,21,016	0 0	8,36,305	0	1,36,780 0	0	23,256 0 0	2	81,052 0 0	43,568	43,712	87,280
Per mile of railway correspond- ing period of previous year	211	81	0 0	560	0	92 0	0	*3 0 0		176 0 0	n		
Total to corresponding date of	315,010	1,21,016	0 0	8,86,305	0	1,36,780 0	0	23,256 0 0	2	81,052 0 0	43,368	43,712	87,280

^{*} Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

	RECEIPTS FOR FIRST 13 DAYS OF JULY 1889. RECEIPTS FOR FIRST 12 DAYS OF JULY 1890.						L RECEIPTS FRO PRIL 1889 TO 13 JULY 1889.			RECEIPTS FROM 1890 TO 12 JULY 1890.		Total increase in	Total decrease in
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mesn mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	1890.	1890.
	Rs.	Rs.		Rs.	Rs,		Rs.	Rs.	SELLIN.	Rs.	Rs.	Rs.	Rs.
747	2,81,052	188	767	2,77,840	181	681	24,16,404	236	759	*25,58,214	225	1,41,720	

^{*} Audited up to week ending 31st May 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for first 12 days of July 1890, on 125 miles open.

	COACHING	TRAFFI	0.			AND MINERAL PFIC.	Other			Tota		TRAFFIC	TRAIN-MILE	S RUN.
	Number of passengers.	Coachi		Weight carried,		Receipts.	(estim			earnii		Coaching.	Merchan- dise.	Total
		Rs.	A. P.	Mps.		Rs. A.P.	Rs	۸.	p.	Rs.	A. P.		44.0	1300
Total traffic for first 12 days Or per mile of railway For previous weeks of half- year	56,289 925	18,290 73	0 0	59,520 238	0	3,530 0 0 14 0 0	20	0	0	22,080 88	0 0	6,211	3,528	9,781
Total for 2 weeks	56,282	18,290		59,520	0	3,530 0 0	-	0	0	22,080		6,211	8,528	9,730
COMPARISON.			1									V N = 2		
Total for corresponding 13 days of previous year Per mile of railway correspond-	61,874	19,886	0 0	63,978	0	3,911 0 0	13	3 0	0	23,429	0 0	6,472	4,122	10,504
ing period of previous year Potal to corresponding date of	247	78	0 0	256	0	16 0 0				94	0 0			******
previous year	61,874	19,386	0 0	63,978	0	8,911 0 0	13	2 0	0	23,429	0 0	6,472	4,122	10,59

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIP	OF JULY 1889	1S DAYS		S FOR PIRST F JULY 1890			L RECEIPTS PRO L 1889 TO 13TH 1889,		APRI	L RECEIPTS FRO L 1890 TO 12TH . 1890.	M 1ST JULY	Total	Total
Mean mileage worked	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean milease worked.	Total receipts.	Per mile worked per week,	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890,	decrease t
125	Ra. 23,429	Rs. 94	125	Rs. 22,68	Rs. 88	125	Rs. 2,03,976	Rs. 108	125	Rs. *1,89,564	Rs.	Rs.	Rs. 13,715

^{*} Audited up to week ending 31st May 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for first 12 days of July 1890, on 86 miles open-

	COACHING	TRAPPIC			DISE TRAE	AND MINERAL	Other earn	ings	Total		TRAFFIC	TRAIN-MILI	s BUN.
	Number of passengers.	Conchir		Weight carried		Receipts.	(estimate	d).	earnings		Coaching.	Merchan- dise.	Total.
		Fs.	A. P.	MD	8.	Rs. A. P.	Rs.	. Р.	Rs. A	. P.			
Total traffic for 12 days Or per mile of railway For previous weeks of half- year	27,350 159	8,330 48	0 0	21,78		2,190 0 0 13 0 6	150		10,670 62		4,172	1,182	5,85
Total for 2 weeks COMPARISON.	27,350	8,330	0 0	21,78	0 0	2,190 0 0	150	0 0	10,670	0	4,172	1,182	5,35
Total for corresponding 13 days of previous year	27,948	8,015	0 0	41,98	7 0	1,385 0 0	667	0 0	10,067	0 0	4,624	1,184	5,80
period of previous year	162 27,948	Zezhenie	0 0	41,95	4 0	8 0 0 1,385 0 0		0 0		0 0	1 3 3 3 3 3	1,184	5,80

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

	rs FOR PIRST		RECEIP	rs for first 1 of July 1890.			RECEIPTS FRO L 1889 TO 13TH 1889.			RECEIPTS FRO L 1890 TO 12TH J 1890,		Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts,	Per mile worked per week.	Mean milenge worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease in 1890,
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	10,067	69	86	10,670	62	86	84,346	65	86	*92,274	72	7,928	

[•] Audited up to week ending 31st May 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for first 12 days of July 1890, on 27.25 miles open.

	COACHING	TRAPPI	c.	MERCHANDISE TRAI	AND MINERAL	Otherearnings	Total	TRAFFIC	TRAIN-MILE	s RUN.
	Number of passengers.	Coach		Weight carried.	Receipts.	(estimated).	earnings.	Coaching.	Merchan- dise,	Total.
		Rs.	A. P.	Mps. s.	Rs, A, P.	Rs. A. P.	Rs. A. P.			
Total traffic for 12 days Or per mile of railway For previous weeks of half- year	6,070	2,100 39	0 0	28,490 0 523 0	1,500 0 0 27 0 0	20 0 0	3,620 0 0 66 0 0	1,000	775	1,773
Total for 2 weeks COMPARISON.	6,070	2,100	0 0	28,490 0	1,500 0 0	20 0 0	8,620 0 0	1,000	775	1,778
Total for corresponding 13 days of previous year	5,903		0 0		1,189 0 0	34 0 0 1 0 0	3,418 0 0 63 0 0		723	1,744
ing period of previous year Total to corresponding date of previous year	5,903		9 0		1,139 0 0	34 0 0	3,418 0 0		729	1,74

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

	ts por pirst p July 1889.			rs FOR FIRST OF JULY 1890			RECEIPTS FRO PRIL 1889 TO 13 JULY 1889.		TOTAL	RECEIPTS PROPRIE 1890 TO 11 JULY 1890.	M 1st	Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked,	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease is 1890,
272	Rs. 3,418	Rs.	271	Rs. 3,620	Rs. 66	271	Rs. 28,997	Rs. 71	271	Rs. *28,700	Rs. 70	Ra,	Rs. 291

^{*} Audited up to week ending 17th May 1890,

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAY.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the first 12 days of July 1890, on 315 (a) miles open.

	COACHING	TRAFFIC.		AND MINEBAL APPIC.	Other earnings (estimated),	Total	TRAPPIC	TRAIN-MIL	ES BUN.
	Number of passengers.	Coaching receipts.	Weight carried,	Receipts.	including steam-boat.	earnings.	Coaching.	Merchan- dise.	Total.
		Rs.	MDS.	Rs.	Rs.	Rs.			
Total traffic for the period on 315 miles open	60,959 194	21,115 67	2,54,102 807	26,253 83	3,627 6	50,995 156*	8,522	11,578	20,100
year			*****				441788	*****	
Total for one week	60,959	21,1:5	2,54,102	26,253	8,627	50,005	8,522	11,578	20,100
COMPARISON.		EX						Park p	
Potal for corresponding period of previous year on 273 miles open per mile of railway correspond-	81,654	30,385	3,76,374	81,545	6,236	68,166	9,224	10,815	20,039
ing week of previous year	299	111	1,379	116	1	228*			*****
otal to corresponding date of	81,644	37,385	3,76,374	31,545	6,236	68,166	9,224	10,815	20,039

^{*} Steam-boat earnings excluded in calculating "Total carnings per mile of Railway."

(a) Due to opening of Sitamarhi Extension up to Sitamarhi (42 miles veyond Durbhunga) for goods traffic only.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

	TS FOR PIRST OF JULY 1889.			es por Pirst of July 1890			RECEIPTS FRO RIL 1889 TO 18: JULY 1889.		30T	RECEIPTS FROM APRIL 1890 THE JULY 1890.		Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked por week.	Mean mileage worked.		Per mile worked per week,	increase in 1890-91	decrease in 1890-51.
9	Rs	Rs		Rs.	Ra,		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	68,166	250	315	50,995	162	273	5,86,487	153	277'89	6,48,839	167	62,352	

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The Calcutta Gazette.

WEDNESDAY, AUGUST 6, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RESOLUTION ON THE ANNUAL REPORT ON THE CALCUTTA MEDICAL INSTITUTIONS FOR THE YEAR 1889.

RESOLUTION.

MEDICAL.

Dated Calcutta, the 39th July 1890.

READ-

The Report on the Calcutta Medical Institutions for 1889.

Read also-

The Report for 1888 and the Resolution recorded upon it.

1. The year 1889 was not remarkable for any great increase or decrease in the recorded mortality; but it is necessary to bear in mind that changes have been recently made in the boundaries of the Suburbs, and that the figures relating to this area cannot be accurately compared with those for former years. The number of deaths from cholera in Calcutta and Howrah was far less numerous than in 1888, and in the Suburbs the decrease in the figures has been so large as to justify the belief that, even allowing for the change in boundaries, there was a real and substantial decrease in the actual prevalence of the disease. The mortality from small-pox, which in the years 1886, 1887 and 1888, had been trifling in comparison with that of former years, suddenly increased, though not sufficiently to cause serious anxiety. The death-rate from all causes in the town was 26.9, as against 26.97 in 1888, and in Howrah 22.71, against 21.68.

2. The following table shows the number of persons treated, as in-door or out-door patients, in the several hospitals during the past two years:—

And the state of t	1000	1886.			1888.			
	TOTAL TREATED.				TOTAL TREATED.			Pinson.
	In-door.	Out-door,	Total.	Died per mille of treated,	In-door,	Out-door.	Total.	Died per mille of treated.
Medical Col'ege Hospital General Hospital Mayo Institutions Campbell Hospital Municipal Police Hospital	3,190 2,278 8,252	50,182	56,847 3,190 189,697 8,252 2,432	80°82* 39'81 126'86 208'75 8'22	0,194 2,965 2,833 6,497 2,785	45,800	51,994 2,968 177,692 6,497 2,735	102°1° 37°39 97°42 215°94 10°96
Total Calcutta Hospitals Howrah General Hospital	2 25.00	197,601	210.418 11,122	119*91* 217*44	27,227 1,385	220,549 10,525	241,796 11,910	115°52* 247°65
GRAND TOTAL	24,330	197,210	221,540	126:13*	22,612	281,094	253,706	124.05

* Reckoned on cases treated, exclusive of cases treated in the ophthalmic ward of the Medical College Hospital.

The increase in the number of in-door patients, although distributed among all the charitable institutions, except the Mayo Hospital and its dependencies, was very considerable in the Campbell Hospital, which is resorted to by paupers, and is attributed by the Inspector-General of Civil Hospitals to the high price of food-grains which prevailed in Calcutta and the surrounding districts for a great part of the year. The falling off in the number of outdoor patients amounts to 37,350 in the Mayo Hospital, and is said to be due to the operation of a new rule under which the institution is closed on Sundays. Dr. Hilson takes exception to this practice, and remarks that it should not have been introduced without the sanction of Government, as it is likely to lead to great confusion in the preparation of annual statistics. This no doubt is true, but the point is not one in which the Government need interfere with the discretion of the Governors of the Mayo Hospital. In Howrah there was a decrease of 916 in the attendance of out-patients. In reference to the action of the Superintendent of the Howrah Hospital in refusing medicine and medical attendance to well-to-do out-patients, the Inspector-General observes that, "although some such restriction on the attendance of people of this class is much to be desired, the change should not be introduced without the sanction of Government, and, if made at all, it should be applicable to other charitable medical institutions in Calcutta." In this connection the attention of the Inspector-General will be drawn to the orders of Government contained in circular No. 1, dated the 1st January 1880, directing that, in the case of hospitals and dispensaries at the Presidency and in the Suburbs, where there are druggists' shops, and where advice and medicines can be obtained otherwise than at charitable institutions, out-door relief shall be, as far as possible, restricted to those whose circumstances do not admit of their seeking and obtaining it elsewhere on payment. These orders are moreover applicable to other hospitals in Calcutta and its suburbs.

3. Only 31,338 women and 51,439 children were treated in the various institutions to which the report refers in 1889 as compared with 36,030 women and 59,404 children in 1888. This falling off is undoubtedly due in no small measure to the very successful management of the Lady Dufferin Hospital by Mrs. Foggo. The death-rate in all Hospitals, excluding the Eye Infirmary, rose from 124 to 126, the rates for the Campbell and Howrah Hospitals, where paupers are treated, and into which many moribund and incurable cases are admitted, being, as usual, very high. Though the general death-rate was slightly higher than in the preceding year, which again showed a slight increase on the years 1887 and 1888, it was still much below the average of the years 1879—85.

4. Whatever form of treatment was adopted in cholera cases, about half the patients died, and the Lieutenant-Governor regrets to learn that the experiments made with the new remedy, salol, which has been tried with success by Dr. Nicholson in Patna, were not followed by encouraging results. Cases of enteric fever still continue rare in Calcutta, and remittent fever appears to be on the decrease.

5. There were 1,143 admissions for venereal diseases, against 1,064 in the previous year. In commenting on these figures, Dr. Hilson observes:—

"It should be borne in mind that the figures represent only the in-door patients, and that many more cases were treated either in the voluntary lock-

hospitals or in the out-door department of the other hospitals. Hitherto the system of classifying these affections has been extremely faulty, owing to the absence from the printed returns of any heading for venereal diseases other than those in group A, and the consequence has been that a large proportion of cases have been entered under other headings, and have not been taken into account when estimating the prevalence of venereal disease. This circumstance was pointed out during the year to the Government of India, with the result that the insertion of a heading as above mentioned has now received official sanction, and in future it will be possible to draw more correct conclusions regarding the extent to which these affections are prevalent."

6. The number of important surgical operations in the Calcutta institutions

rose from 1,719 in 1888 to 1,926, and the minor operations from 20,264 to 20,933: There were 80 deaths after operation, the rate of mortality being 39 per mille (including the cases left over from the previous year) as compared with 46 per mille in 1888. The Lieutenant-Governor agrees with the Inspector-General in considering that these results are satisfactory evidence of the skill of

the operators and of the care taken of the patients.

7. On the subject of entrusting a larger number of surgical operations to House Surgeons and senior students, Dr. Hilson observes:-"The Medical College Hospital is designed primarily for the treatment of the sick, but it is also intended for the practical instruction of natives in medicine and surgery, and it seems to me that more opportunities of performing operations might be given to the House Surgeons and advanced students. To the want of such opportunities is to be traced in some measure the small amount of surgical work performed in Bengal by Assistant Surgeons after they leave the College and begin to practise in the districts. I know it has been urged that House Surgeons and senior students in the large English Hospitals are only allowed the privilege of operating on patients to a very limited extent, and that the high reputation which the Medical College Hospital at present enjoys night suffer if a different course were followed, and many operations were performed by inexperienced and unskilful hands. To this it may be replied that India is not England, that the Indian student requires a more practical training than his English confrére to fit him for the active duties of his profession, and that there is no necessity to entrust him with other than the more simple operations, which might be satisfactorily performed under the immediate supervision of the senior officers of the surgical wards. At the Mayo Hospital, Lahore, the Assistant Surgeons and senior students are allowed to perform a considerable number of the major operations every year, and this system of training the students and enabling them to acquire confidence in their own capabilities does not seem to detract in any way from the usefulness and reputation of that institution." Sir Steuart Bayley would commend these observations to the careful consideration of the Medical College Council.

8. In the Eden Hospital 2,435 women and children were treated against 2,668 in the previous year, showing a decrease of 233 cases. Owing to want of accommodation when the building was under repairs, many applicants had to be refused admission. Of the 2,435 patients treated, 832 were Europeans and 1,603 natives. The deaths among the former amounted to 29, and among the latter to 56. The number of confinement cases fell from 513 in 1888 to 497; the mortality among this class of patients being 18 against 20 in 1888. The very few cases of septicæmia which occurred in the Hospital show that antiseptic precautions were carefully enforced in all cases of labour. The importance of these precautions has been fully impressed on the nurses, and it is hoped that no pains will be spared to eliminate this dangerous and fatal disease. The steam laundry sanctioned for this institution is not yet ready for use, owing to some delay in fitting it with the requisite machinery. Certain alterations made by Dr. Joubert in the classification of obstetric and gynacological operations, are likely to produce some confusion in the annual returns, but appear, at the same time, to be unavoidable, as, in the absence of any recent orders on the subject, difficulty is often experienced in the classification of these operations. With a view to ensure one uniform system in the different hospitals, the Inspector-General suggests that the classification sanctioned in the Resolution of the Government of India, No. 129, dated the 21st February 1877, should be revised. The Lieutenant-Governor agrees in these remarks, and will consult

the Inspector-General of Civil Hospitals with a view to formulating the

alterations which may be recommended to the Government of India.

9. In the Ezra Hospital 1,438 out-patients and 236 in-patients, most of whom were Jews, were treated during the year. Of the in-door patients 153 were cured, 43 relieved, 26 otherwise discharged, and 3 died. These figures show that the benefits conferred by this institution are fully appreciated

by the Jewish community.

10. The Lieutenant-Governor is glad to find that the nurses employed in the hospitals continue to discharge their duties thoroughly and well, and has read with great pleasure the high praise accorded by Dr. Hilson to the ladies of the Clewer Sisterhood in speaking of the indefatigable services rendered by them in supervision and in tending the sick. Four permanent nurses were appointed this year to the Eden Hospital, as it was considered dangerous to rely exclusively on temporary nurses, many of whom do not possess sufficient experience in the work. Twelve European and Eurasian

nurses passed their examination, two of them with great credit.

11. The invested capital of the Calcutta institutions shows a decrease of Rs. 8,500; securities to the value of Rs. 12,000 were withdrawn, and applied to the construction of a new moribund ward in the native department of the Howrah Hospital. The total income during the year, including the opening balance, amounted to Rs. 5,21,390; of this sum Rs. 3,46,858 were contributed by Government. The total expenditure, excluding the amount invested, was Rs. 5,01,970, against Rs. 4,27,082 in 1888. The increase was mainly due to a large expenditure on buildings and repairs in the Campbell Hospital, while the increase in the amount contributed by Government is due to the entire cost of the Police Hospital having been met from Provincial Funds. The Inspector-General remarks that the Calcutta Municipality contributed nothing towards the Mayo institutions, and that it is time to consider whether, in view of the fact that Government has undertaken all charges on account of Calcutta Police, the Municipality should not relieve the Government of its contribution towards the medical charities of the city. It has already been pointed out to Dr. Hilson that the entire relief afforded to the Municipality by the reduction of police estimates is hypothecated to the improvements of the Suburbs, and that, so far as this argument is concerned, it affords no ground for asking the Municipality to undertake all charges on account of the medical relief of the town.

12. The thanks of Government are due to Dr. Hilson for his careful and

interesting report.

Ordered that a copy of the Resolution, with a copy of the Report,

be submitted to the Government of India for information.

Ordered also that a copy of the Resolution, be forwarded to the Inspector, General of Civil Hospitals for information and guidance; that a copy of the Resolution, and of the Report, be forwarded to the Chairman of the Calcutta Corporation and to the Commissioner of Police, Calcutta, for information, and that a copy of the Resolution be forwarded to the Governors of the Mayo Hospital and to the Commissioner of Burdwan for information.

Ordered also that the Resolution be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS, Offg. Chief Secretary to the Govt. of Bengal.

RESOLUTION ON THE INLAND EMIGRATION REPORT FOR THE YEAR 1889.

GENERAL DEPARTMENT—INLAND EMIGRATION.

Calcutta, the 31st July, 1890.

RESOLUTION.

READ-

The Report of the Superintendent of Emigration, Calcutta, No. 937, dated 30th April, 1890, on Inland Emigration for the year 1889.

Emigration to Assam is now conducted on three different systems, which work on lines so distinct that it is convenient to deal Contractors' emigrants. separately with the facts and figures as to each set forth in the report. That first established, of transmission by contractors, contemplates full supervision by Government over the character of recruiters, the execution of labour contracts, and the sanitary arrangements for the journey. Under it 1,835 labourers were engaged during the year 1889, of whom only 1,442 actually started, a number small by comparison with the results obtained on the rival systems, but considerably greater than that returned for the previous year. The increase is attributed by the Superintendent of Inland Emigration to the opening of a new depôt; and it is also to be remembered that there has been a reaction among exporters of labourers in favour of increased control by Government in this department. Eighty-two recruiters were licensed during the year, a number which appears large, as the majority of the emigrants engage in the 24-Pergunnahs and Burdwan, where they are strangers, having in all probability been really recruited in their own districts by men who have not taken out licenses. Two licenses were cancelled for very sufficient reasons. The number of desertions is considerable (168), as also that of discharges from depôt (132), and they suggest that the original work of selection was not performed with sufficient care in the interest of employers. The mortality—4 persons in depôt, or 27 per cent., and 3 persons on the journey, or 17 per cent.—is not excessive. It is, indeed, clear that under this system every sanitary precaution is taken, and that in this respect it works satisfactorily, whatever its drawbacks in other directions. The contractors' coolies, whether bound for the Surma Valley or for Assam Proper, follow the Goalundo route only.

2. In the case of labourers engaged by garden sirdars, the employer is primarily responsible for the character of the recruiter, and the arrangements for healthy depôts are less elaborate; but Government supervises the execution of labour contracts and the general arrangements for the journey. The number of labourers engaged by garden sirdars was 10,822, against 12,225 in 1888, a decline which, as the Superintendent observes, is undoubtedly due to the exceptional facilities afforded by the system of Assam contracts. The number of desertions is not known, or the total mortality, as the rule requiring the return of the way-bills which would afford information on these heads, is still very generally neglected. But such way-bills as have been received back from Cachar and Sylhet show that the losses on that route have been very great, 80 deaths having occurred among 2,564 emigrants, being 3.97 per cent. of the whole. This Government is at present in correspondence with the Assam Administration on the subject of effecting improvements on the sanitary supervision over emigrants to the Surma Valuer.

3. The great majority of the emigrants proceed under the free system, that is to say, without supervision on the part of the State. Of these, 44,401 arrived during the year in Assam, making, with the members of the classes referred to above, a total of 57,058. The emigrants classed as "free" in the Bengal returns generally execute contracts under Act I of 1882 on entering Assam. Of 28,948 of this class of emigrants who passed through Dhubri, all but 780 made such engagements there. A certain amount of sanitary supervision is now exercised over emigration of this class under Bengal Act I (B.C.) of 1889, and the opinions expressed as to the working of that measure are all favourable.

The present report, though it does not show any outbreak of cholera, such as that which occurred on the railway route to Dhubri in 1886, still bears witness to a heavy mortality on that line, which indicates the necessity of increased

precautions.

4. The Superintendent notices the fact that a rule was introduced during the year to ensure the provision of a cooked meal for emigrants at Parbatipore, a matter to which the Lieutenant-Governor attaches great importance. As has been indicated by the Magistrate of Rungpore, the rules on the subject of the food to be supplied on the railway journey are not enforced with sufficient strictness, the agents do not seem to be always aware of their responsibility in the matter, and the subordinate medical officers who inspect at certain stations do not notice instances of neglect. Since the close of the year a rule has been passed definitely imposing this duty on such officers. The Superintendent

notices the following sanitary measures among others adopted during the year:—
"The supervision of the medical establishments provided for coolies at Kurigram and Kaunia was entrusted to the Medical Officer in charge of the Eastern Bengal State Railway. In the early part of the year the Lieutenant-Governor had under consideration the circumstances connected with the outbreaks of cholera among emigrants on their way to Assam and the means best calculated

to check such epidemics.

In addition to the arrangements already sanctioned, viz.-

the remedying of the sanitary defects of the depôts at Raneegunge and in Chota Nagpore;

the construction of a cholera shed at, and the deputing of medical estab-

lishment to, Kurigram; the transference of the medical agency from Magra to Naihati; arrangements for the proper treatment of emigrants travelling by rail: report by telegram of cases of cholera on the railway line, and at

Goalundo for cases occurring on steamers,

it was further ordered that the private depôts in Calcutta and Raneegunge be inspected and sanitary defects remedied; that arrangements be made at Raneegunge for the disposal of the dead; that a cholera hospital be built at Raneegunge, and a medical officer be deputed to the Raneegunge and Sealdah Railway stations to examine emigrants and prevent those infected starting, and to ascertain the depôt from which the infected coolies came.

Similar inspection and medical assistance to the sick were afterwards ordered at Parbatipore, and it was arranged that the number of coolies to be despatched from stations on the East Indian Railway should be limited to 320 daily; that the carriage of coolies by goods train be discontinued, and the conveyance of coolies in goods wagons be not allowed until suitable wagons had been approved

of by a Committee.

The Resolution of the 3rd September, 1889, sanctioned—

(1) The posting of a Civil Hospital Assistant to the charge of the coolie depôt at Raghunathpore in the Manbhoom district.

(2) The construction at Raghunathpore of a cholera mat hospital and the sinking of a masonry well.

(3) The adoption of similar measures at the municipal town of Jhaldah in Manbhoom.

(4) The placing of the Assistant Surgeon of the Giridih sub-division in charge of all the coolie depôts there, and the construction at that place of a cholera mat hospital, also to be in charge of that officer; an extra allowance of Rs. 20 being granted him on this account during the recruiting season.

(5) The adoption of similar arrangements at the sub-division of Govind-

pore, an extra allowance of Rs. 10 being likewise granted to the Civil Hospital Assistant during the recruiting season.

(6) The appointment of the Assistant Surgeon at Sara on a special allowance of Rs. 20 per mensem, with a compounder on a salary of Rs. 8 per mensem, to supervise the sanitary arrangements of rest-houses there.

A Committee having been formed to consider the question of the use of goods wagons for the conveyance of coolies, certain pattern wagons with improvements in ventilation and as to inlet and exit for passengers were inspected at Kaunia and pronounced suitable for coolies, and the use of such wagons was sanctioned.

A uniform fee of eight annas per head was directed to be charged for the treatment of sick coolies of all classes in railway hospitals.

In November last the inspection at Goalundo before embarkation of all casual coolies proceeding to Assam by the Assistant Surgeon of Goalundo, and the adoption of the arrangements as regards duration of halt and food, which were

prescribed for coolies proceeding vid Dhubri, was ordered."

5. The general working of Act I of 1882 has to be separately reviewed during the current year, under the orders of the Secretary of State, and it therefore seems unnecessary to comment on this subject at present. Surgeon-Major Comins, the Superintendent of Inland Emigration, has administered the department with much discretion, and the successive Commissioners of Chota Nagpore (Mr. Stevens and Mr. Grimley) have given much attention to the subject, which is of great importance in that division. Mr. Skrine, Magistrate of Rungpore, also deserves mention for his attention to the sanitary requirements of emigrants passing through his district.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

ADMINISTRATION REPORT OF THE METEOROLOGICAL DEPARTMENT, 1889-90.

THE following report is published for general information.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

The 30th July 1890.

Secretary to the Govt. of Bengal.

In accordance with the orders of Government the reports submitted during the past two years have given information regarding the more important changes and working in the department, the full details being reserved for the triennial report, which it is now my duty to prepare. The information given by Mr. Pedler, in his reports for the two past years, regarding the changes carried out in extending the Storm Signal Service, and also regarding the extensive system of changes effected by Mr. Eliot at the commencement of 1889, has been full and complete, and as it is therefore unnecessary that I should repeat the information, I shall confine my attention to the details concerning the ordinary working of the department.

The department was under Mr. Pedler's charge during the past year, with the exception of the period between 5th August and 29th October, when he was

on leave. During these months I officiated for him.

The system of work commenced in 1889 has been maintained, and as the changes and improvements then carried out were very thorough, the work of the department has gone on smoothly throughout the past year, and no change of any sort has been required.

One observatory, viz., that at Tezpore in Assam, had to be closed during last year. On the 16th March 1889 the observer reported that the lock of the cage containing the thermometers had been broken open and all the thermometers stolen. As this observatory had not been working satisfactorily for some time, it was decided by the Meteorological Reporter to the Government of India not

to issue new thermometers, but to close the observatory.

On the other hand, a new observatory has been started at Mozufferpore in Bengal. In June 1889 it was represented that regular meteorological observations from this station would be of great service to the indigo-planting community, and after due enquiry on this point, Babu C. C. Chatterjee was deputed to select a site and make other arrangements to establish a regular meteorological observatory at Mozufferpore. The best available site was selected, an observer appointed and trained, and with the assistance of the Executive Engineer, Mr. Norman, the shed, &c., were constructed. The Magistrate kindly consented to act as Superintendent of the Observatory. When everything was ready, Mr. Pedler visited Mozufferpore, and, as he found all in a very satisfactory condition, ordered the commencement of the regular work of observation. The first report received was on the 3rd April 1890.

The following table gives the number of stations reporting observations to Observatories. this department during the past three years:—

1887-88.	1888-89.	1889-90.			
1st Class Imperial 2nd , , , 3rd , , , Other stations reporting for the Storm Warning Service only	1 2 49		1 15 35	1st Class Imperial 2nd " " 3rd " " Other stations reporting for the Storm Warning Service only	1 15 35

Returns were also received from four voluntary observatories, viz., Tura, Demagiri, Shortt's Island, and Lungleh. The two last stations commenced observations from 1st April and 9th July 1889, respectively.

Vizagapatam is an independent observatory under the direction of Mr. A. V. Nursing Row, who has continued to favour this department with his observations which are received with great punctuality. The department is also now indebted to him for special storm telegrams, which he kindly sends us whenever required in response to our telegraphic request. The thanks of this department are therefore again due to Mr. Nursing Row for his continued valuable assistance in connection with the Bay of Bengal Storm Signal Service.

The following table gives a list of the observatories which have been working during the last three years, together with the names of the observers:-

Personnel of Observatories in Bengal and Assam during the years 1887-88, 1888-89, and 1889-90.

A THE REAL PROPERTY.	8	1987-88.		1888-89.		1889-90.		
	5	Name of observers.	Allow- ance.	Names of observers.	Allow- ance.	Names of observers.	Allow- ance.	
Second Class.	8		Rs.		Rs.		Rs.	September 1
		J. J. Brown M. N. Roy	15 15	J. J. Brown M. N. Roy	15 15	J. J. Brown M. N. Roy	-23 18	B + C.
	•••	M. P. Chowdhury	15	(M. P. Chowdhury)	15	M. P. Chowdhury	18	В.
Burdwan		M. McSweeny)		(J. D. MoGregor)		A LANGUAGE MARKET		建筑
hittagong	3	J. E. Gabriel}	25	b. mcDonough (25	W. Tocher	27	B+C+D.
outtack	ì	F. Stone?	25	F. J. Bennett	25	F. J. Bennett	18	В.
		F. J. Bennett J T. W. DeSouza	15	T. W. DeSouza	15	T. W. DeSonza	18	В.
See to About 18 to the State of		F. N. Rushton	25	{ E. G. McLean }	25	P. K. Vaughan	25	B + D + E.
	(B. N. Banerjee, Head	30	B. N. Banerjee, Head	30	B. N. Banerjee ?	25	P+D+P
Dhubri	3	Observer. Kafayut Ulia, Assist-	10	Observer. A. K. Sen, Assistant	10	A. K. Sen 5	25	B + D + E.
Durbhunga	(J. C. Banerjee	Volun-	Observer. J. C. Banerjee	Volun-	J. C. Banerjee	10	Λ.
	"		tary.		tary.	T Tandau	490	B + C.
		J. Loudon Nuthoo Lal	20 20	J. Loudon Nuthoo Lal	20 20	Nuthoo Lal	23 25	B + D + E.
atna		Surjan Sing	30	Surjan Sing	30	§ R. H. Peters }	18	B.
Saugor Island .		R. H. Peters	45	R. H. Peters	45	(F. A. Thomas)	45	B + C + D + E (speci
Sibsagur		D. D. Barua	30	D. D. Barua	30	D. D. Barua	25	B + E +
Water Control	200	R. C. Bhadra	15	R. C. Bhadra	15	R. C. Bhadra	20	(special case B + F.
Third Class.							20	
rrah		S. C. Banerjee	10	S. C. Banerjee	10	F. R. Green R. M. Das	10	Λ.
Landon and	-	R. M. Das B. N. Chatterjee	Volun-	R. M. Das B. N. Chatterjee	Volun-	B. N. Chatterjee	15 10	A + C.
Elle Carrier	0		tary.	CT C PL .	tary.		- 10	
		J. C. Bhaduri Gangadhar Barik	10	B. L. Misser 3	10	B. L. Misser Gungadhar Barik	10	A.
		K. N. Roy	10	Gangadhar Barik K. N. Roy	10 10	K. N. Roy	10 15	Λ. Λ + C.
Suxar	**	B. N. Guha	10	B, N. Guha	10	B. N. Guha	10	Δ.
	-	K. P. Moitra M. L. Sirear	10	K. P. Moitra M. L. Sircar	10	M I Vines	10	Λ.
NO SHEET OF A PROPERTY OF A SHEET	+1	C. J. M. Gaetane	15	C. J. M. Gaetane	10 15	C. J. M. Gaetane	10	A + C.
comiliah	1	N. C. Biswas }	10	B. N. Deb	10	B. N. Deb}	10	A.
Jehree	**	P. L. Sen Abdul Aziz Khan	10	P. L. Sen Abdul Aziz Khan	10	P. L. Sen Abdul Aziz Khan	10	Δ.
Dinagepore	5	N. C. Mozoomdar ?	10	N. C. Mozoomdar	10	N. C. Mozoomdar	10	Δ.
		R. L. Sen J. Narain Moorty Nai-	15	J. Narain Moorty Nai-	15	J. Narain Moorty Nai-	15	A + C.
		doo. Mukund Lal	15	doo. Mukund Lal	15	doo. Mukund Lal	10	
Gya Jessore	I	P. N. Roy Chowdhury	16	P. N. Roy Chowdhury	15	P. N. Roy Chowdhury	10	A. A.
Julpigoree		B. M. Chatterjee	10	B. M. Chatterjee }	10	K. C. Gangooly	10	Δ.
Zaloka adama		P. L. Ghosh	10	P. L. Ghosh	10	P. L. Ghosh	10	Λ,
Madras (Port offic	(0)	W. T. Daniel	10	J. R. Gonsalves	10	J. R. Gonsalves	10	Δ.
	***	M. N. Seal	10	M. N. Seal	10	M. L. Das M. N. Seal	10	Δ.
Mr. william and		C. Narain Swami	10	{C. Narain Swami}	10	C. J. Clarke Mohadeo Pershad	10	Δ.
Mymensingh	3	J. K. Chakravarti }	10	S. C. Saha	10	S. C. Saha	10	Λ.
Nellore			***	D. Conn	10	D. Conn	15	A + C.
Noakholly	{	B. K. Sen}	10	G. C. Gangooly	10 '	{ D. N. Misser }	10	Δ.
ya Doomka		D. N. Mookerjee	10	D. N. Mookerjee M. Francis	10 10	D. N. Mookerjee	10	A
lamash.		G. C. Chunder	15	G. C. Chunder	1	G. C. Chunder }	15	A + C. A.
Rampore Beau-			1 200			O D Demantes		
leah.	1	E. T. Gangooly	10	(S. R. Banerjee)	10	S. R. Banerjee	10	Α.
Laneegunge	-	R. R. Ghosh	10	R. R. Ghosh	10	R. R. Ghosh	10	Δ.
	-	B. K. Pose	10	[D. N. Gupta]	10	{ N. C. Pal }	10	Δ.
I MARCONE		H. L. Seal	10	R. R. Ghosh D. N. Gupta N. C. Pal H. L. Seal T. Cribb	10	S. Mookerjee R. R. Ghosh	16 15	A. + C.
Cezpore	5	Mir Sabdar Ali }	15	MIT SHOURT All ?	10	COSSETVATORY	10	
THE RESERVE		N. C. Sarkar 3	1000	{ Rup Lal }	30 25	from 16th April 1880.	K(245)8	STEELS FOR

	1887-88.		1888-89.		1889-90.	to the second	
led by it	Names of observers.	Allow- ance.	Names of observers.	Allow-	Names of observers,	Allow-	
Voluntary. Demagiri Lungleh	G. C. Bhar	Volun- tary.	G. C. Bhar	Volun- tary.	{G. C. Bhar } {K. P. Kumar } J. K. Sen } \$. U. Chntierjee } N. C. Gupta	Volun- tary. Disto	Commenced observations from 9th July 1889.
Sherit's Island	A. Nyem }	Volun-	B. R. Das A. Nyem	Volun-	W. Tasker	Ditto	Commenced observations from 1st April 1889.

The classification of observatories as given in this table dates from 1st January 1889. Previous to this date Dhubri and Saugor Island only were 2nd class and the rest third class observatories. The allowance also was re-arranged, and from 1st January 1889 the allowance was fixed as given for the year 1889-90.

Inspection of observatories .- The following stations were inspected :-

			1887-88.	1889-89.	1889-90.		
STATIONS	INSPECTE	iD.	Date of inspection.	Date of inspection.	Date of inspection.		
Akyab			28th November 1887				
Arrah				13th and 14th Merch 1889.			
Bankoora		25.748	21st to 23rd August 1887	1000.	4th April 1889.		
Burrisaul	***	***	2000				
Berhampore	***	•••	4th January 1888 12th August 1887		grant y fracts		
Bhagulpore			9th and 10th August 1887	11th August 1888	20th and 21st August and		
			· · · · · · · · · · · · · · · · · · ·	可能引起的一度。 1964年4	6th December 1889.		
Bogra	***	***		16th June 1888			
Burdwan	The state of	•••	13th August 1897 and 13th January 1888.	······	12th to 15th August 1889 and 19th January 1890.		
Buxar	***			23rd October 1888			
Chittagong	***	***	26th November 1887				
Chupra			25th January 1888	24th March 1889	1st and 2nd September 1889.		
Comillah			10th January 1888				
Dacca			12th January 1888	5th February 1889	1983/7 (Correction of the Correction of the Corr		
Darjeeling			28th to 31st March 1888		14th to 17th October 1889.		
Dhubri	1066	***	21st March 1888	CANCEL DE LA CANCELLA	22nd to 24th October 1889.		
Dinagepore				12th June 1888			
Durbhunga			17th January 1888	22nd March 1889	23rd August 1889.		
Furreedpore			16th January 1888				
Gya	***	+++	26th to 29th January 1888	24th October 1888	6th September 1889.		
Hazaribagh		***			10th April 1889.		
Jessore	111	•••	6th September 1887	24th June 1888 and 8th February 1889.			
Julpigoree	•••	•••	19th March 1898	5th, 6th, and 9th June 1888.	19th October 1889 and 29th March 1890.		
Krishnaghu			18th March 1888	91et lune 1900	avad amarch 1000.		
Maldah	Cartifal Co.		15th December 1887	21st June 1000	The same of the sa		
Midnapore			22nd May 1887	and the Man			
Motiharee		***	16th January 1888	23rd March 1889	30th August 1889.		
Mymensingl		***	14th January 1888	3rd February 1889	and the second		
Noakhally			5th to 7th January 1888	。	THE STATE OF THE PROPERTY.		
Nya Doomk	a	***	5th August 1887				
Patna			25th March 1888	9th October 1888	5th and 6th September 1889.		
Purneah			18th and 19th December 1887.		17th and 18th August 1889 and 30th March 1890.		
Rampore Be	eauleah	***		19th June 1888			
Raneegunge		***	2nd August 1887 and 18th January 1888.	25th October 1888	···· -		
Rungpore	•••	•••		10th June 1888	20th October 1889 and 31st March 1890.		

Akyab—Was visited by Mr. Eliot in November 1887 to decide on the question of removing the observatory to a better site, made necessary by the erection of the new telegraph office building close to the thermometer shed. No very satisfactory site was available, but as it was very desirable to retain the observatory at the telegraph office, a new position about as far from the new telegraph office as the observatory was from the old office was chosen. The anemometer was continued at the old site, but the staging was raised to a height of about 36 feet above the ground.

Arrah-Was visited by Mr. Pedler on 25th March 1888. The instruments were all in good order except the barometer. A set of comparative readings made with a standard taken from Calcutta shewed that the barometer was working sluggishly, though the correction had scarcely changed. Another barometer was supplied, and the old one sent back to Calcutta for verification. The observer was well qualified for his duties, and the general condition of the observatory very satisfactory. A second visit was made on the 13th and 14th March 1889 chiefly for the purpose of having the observatory transferred to the Telegraph office, as the observer was unable to take the observations at 8 A.M. A new site for the thermometer shed was selected, and it had the advantage of being more open than the previous position. The new site for the wind instruments, however, was not quite so good. Observations were first taken in the new positions on 1st April 1889.

Bankoora—Observatory was inspected on 21st to 23rd August 1887 by the head clerk, and again on the 4th April 1889 by Mr. Pedler. At the time of the first visit the observatory was in a very unsatisfactory condition, the instru-ments being nearly all out of order, and the observer ignorant of the rules laid down for his guidance. The instruments were put right so far as was possible at the time, and the local overseer of road cess kindly undertook to see that the wind vane was properly set, and the Magistrate, that the observer made

himself acquainted with his instructions.

The second visit was made shortly before 8a.M., the hour for taking the observations, and the observer was found to attend punctually. The observatory was in very good order, all the instruments being clean, and properly set, with the exception of the wind vane, which was not quite perpendicular. The observer was slow in reading the barometer. The observatory was every

way in a much better condition than at the previous visit.

Burrisaul—Observatory visited on 4th January 1888, was found to be in very good order. The observer read the instruments quickly and correctly, and

kept them clean.

Berhampore-Was visited on the 12th August 1887. The observatory and

instruments were in satisfactory order.

Bhagulpore-Observatory has been inspected four times during the past three years, two of the visits being very recent-in August of last year by Babu C. C. Chatterjee, Inspector of Observatories, and again by Mr. Eliot in December. When inspected on 9th and 10th August 1887 the instruments were

found to be dusty, but otherwise in good condition.

In August 1889 the shed was found to be in want of repair, and an estimate was prepared for sanction. Comparative readings of the barometer were taken during the two days, with fairly satisfactory results. The thermometers were in good order, but the rain-gauge, anemometer, and wind vane were all unsatisfactory. The rain-gauge was not horizontal and only 61 inches above the ground, to remedy which a level masonry platform was ordered to be made. The wheels of the anemometer were worn and the wind vane was not working smoothly. Both instruments were replaced by new ones. When the observatory was started in 1883 there were some low trees in the neighbourhood of the wind instruments, and these were found to have grown so as to interfere with the free circulation of the air. At the instance of the Inspector the landlord kindly consented to have the trees cut down. When inspected by Mr. Eliot in December the trees had been removed and the exposure was quite satisfactory. In other respects the observatory was satisfactory, the orders given in August having been carried out. The observer is intelligent, but not very careful and his readings are hence occasionally doubtful.

Bogra-Observatory, inspected on 16th June 1888, was in very good order, various improvements having been made on the shed and a masonry platform made for the rain-gauge. Comparative readings taken with the Calcutta

standard showed a very slight error in the station barometer.

Burdwan-Observatory was inspected on 13th August 1887, and again on 13th January 1888. On both occasions the instruments were in good order, and repairs, found necessary on the first visit, were carried out before the second. A new barometer had been supplied shortly before Mr. Pedler's visit on 13th January and comparative readings taken by him shewed that the correction had not varied. Further inspection was not considered necessary

till August 1889 when Babu C. C. Chatterjee went for the purpose of changing the positions of the instruments requiring good exposure, viz., the wind instruments and the rain-gauge. Arrangements were made for altering their positions, and the other instruments were inspected and found in very good order. Comparative readings of the barometer and thermometers were also taken. Objection was afterwards taken by the Civil Surgeon to the position fixed for the wind instruments as being too near the edge of the roof of the registry office building. He suggested that they should be fixed over one of the central walls, and to ensure that there would be no loss of exposure, Mr. Pedler went on the 19th January 1890 to examine the proposed sites. As he had no objection to the central position, the pillars were erected and the instruments removed there on 31st January. The height of the anemometer has been increased from 16 feet to 24 feet, and it can be easily reached for reading and oiling. The exposure is not altogether satisfactory, but it is the best that can be got in the neighbourhood. The fence made round the thermometer shed also encloses the rain-gauge, which is at least five feet from the fence.

Buxar*—Was visited by Mr. Pedler on 23rd October 1888. The wet bulb

Buxar—Was visited by Mr. Pedler on 23rd October 1888. The wet bulb thermometer had been broken the day before, but otherwise the thermometers were in good order. The barometer was not so satisfactory, the mercury in the cistern having become oxidised, and in the tube above the column the mercury was found to have evaporated and adhered in small drops to the glass. Being a Fortin's principle barometer, the evaporation did not affect its accuracy, but the possibility of condensation of mercury in this way is of the greatest importance in the use of instruments constructed on the Kew principle, as any readings taken from one in such a condition would be altogether worthless, a considerable unknown error being introduced. The anemometer was working well, but the wind vane, one of the Roorkee pattern, was working very heavily, chiefly from want of oil. The rain-gauge was rusty, holes having been eaten

right through the outer tin case.

Chittagong—Has not been inspected since 1887, when Mr. Eliot found all the instruments in good order. The observer continued to give satisfaction until the last year, when Mr. Toche, the present Telegraph Master, took over charge of the Chittagong Telegraph Office, who, considering his other duties required all his time, gave over charge to Mr. Mackenzie, a telegraph signaller, on the 1st of April 1889. According to the orders of the Director-General of Telegraphs, the signaller ought to have a thorough knowledge of the methods of reading the instruments and of preparing the code telegram, but Mr. Mackenzie has, throughout the period during which he has held the appointment of observer, made numerous mistakes, and, on the occasion of stormy weather in the neighbourhood of Chittagong in October of last year failed to be of the slightest assistance from his ignorance of the method of framing the telegram by means of the storm signal code used in forwarding additional observations. These observations were of the greatest importance, as any action taken in warning the port of Chittagong would have largely depended on them. This is only one of several cases that have lately occurred when the permanent observer has given over charge before his successor has acquired the necessary facility in reading instruments, or a competent knowledge of the working of an observatory. In some cases no fault can be found with the out-going observer, as his relieving officer may have come from a distance, and time not been available to give full instruction, or to see that he had previously acquired the requisite skill. This excuse cannot be applied in the Chittagong case, as Mr. Mackenzie had been a signaller there for some time, and had either from ignorance or carelessness disobeyed the order of the Director-General of Telegraphs.

In connection with this, I may mention that during the monsoon season last year, the Serajgunge observer went on leave, and his successor was so unqualified for the work and so unwilling to do it, that in the absence of any opportunity of instructing him, the observatory had to be closed until the

permanent observer's return.

Later at the very end of the year 1889-90 there was a change of observers at Diamond Island, and the new observer supplied information so out of agreement with the other stations that there was no hesitation in rejecting all his observations. Unfortunately, while he was still on duty, the first storm of

the present season occurred in the near neighbourhood of that station, and knowing the character of his work, I was at a loss to say whether the storm was severe or not.

I have mentioned these three instances which have all occurred within six months to shew the risk of a partial failure of the storm warning system from a man of incompetent knowledge having to take over charge as observer. I understand that quite recently the Meteorological Reporter to the Government of India has been in communication with the Director-General of Telegraphs with a view to have the order revived, viz., that signallers make themselves thoroughly acquainted with the work so as to be able at short notice to

assume the responsibility of supplying correct information.

Chupra—Was visited on the 25th January 1888 by Mr. Eliot. vatory was in every way satisfactory, except that the observer had taken the readings by Madras time instead of local time. The correction for local time was given him, and the rain-gauge removed from the compound of the Road Cess Office to that of the circuit-house. The next visit made was by Mr. Pedler on the 24th March 1889, when he found the observatory in a disgraceful condition and the observer very careless in the performance of his duties. The instruments were found to be more or less out of order and the records very badly kept. Arrangements were then made to transfer the observatory from the Public Works Department to the Telegraph Department, and in September of the same year the Inspector of Observatories was sent to see the observatory started under the superintendence of the Telegraph Department, the Telegraph Master becoming observer. A new shed had been built on the grounds of the Telegraph Office, and some minor defects in it were pointed out and remedied as far as possible. The barometer was removed from the Collector's room to the signal-room, and the difference of level of the two positions ascertained. It was also arranged that the old observer should continue on duty for one month, so as to allow sufficient time for the telegraph master to become thoroughly acquainted with his duties.

Comillah—Observatory was inspected by Babu C. C. Chatterjee in January 1888. The permanent observer was away without leave, and the acting one did not understand his work. He was thoroughly drilled. The shed was in a shaky condition, but was repaired shortly after. The instruments were all found in good order, any small defects noticed being removed by the Inspector. But the position of the shed having been found faulty, another on a better site was built and comparative observations carried on for a year up to 30th April 1889. The observations from this observatory, more especially those of the

barometer, are, however, frequently found to be erroneous.

Dacca—Was visited twice—by Babu C. C. Chatterjee on 12th January 1888 and by Mr. Pedler on 5th February 1889. The instruments were found in excellent order on both occasions, and the observer has in every way given satisfaction. The rain-gauge has given some trouble. At first it was apt to be flooded by the river, and Babu C. C. Chatterjee had it removed, but in its new position some neighbouring trees and the telegraph buildings sheltered it to

such an extent that Mr. Pedler had to fix a new site.

Darjeeling—Observatory was in a satisfactory condition when visited by Mr. Pedler on 28th to 31st March 1888. The new Beckley's anemograph had just been erected, and the first difficulties got over, so that Mr. Pedler expected valuable results from the instrument. Though the wind velocity portion of the apparatus was working very freely at that time, it was very much out of order when the observatory was next inspected by Mr. Gilliland about the middle of October 1889. It worked only with winds of over ten miles an hour, and the adjustment of the direction recorder was also unsatisfactory. The part of the instrument exposed to the weather had suffered to such an extent during the previous eighteen months, that it had to be dismantled and thoroughly cleaned. The anemometer, wind vane, sun thermometers, and the barometer were also found to be somewhat defective, and were put right as far as possible.

Dhubri—Observatory inspected 21st March 1888 and 22nd to 24th October 1889. At the time of the first visit made by Mr. Pedler, the instruments were in good order with the exception of the anemometer, wind vane, and anemograph. The velocity part of the anemograph was working very freely, but that giving the direction record worked very heavily, and was so adjusted that the

direction given was the opposite of what it ought to have been. The defects were remedied, but as the anemograph house was undergoing repairs, it was

impossible at that time to have the instruments thoroughly cleaned.

During the past year nearly all the observers in North Bengal were changed, and the new men being not thoroughly instructed in the reading of the instruments, advantage was taken of the October college vacation to send Mr. Gilliland to find out to what certain small errors, which were daily apparent, more especially in the readings of the barometer, were due. The observatories which urgently required this visit were Julpigoree, Rungpore, and Dhubri, and as these observatories are in the same part of the country, the observations taken at one frequently corroborated those of another though all the readings were unreliable. I may state that the errors usually made are of two kinds, one from careless reading of the scale, whereby the correct graduation is not taken though the instrument be properly adjusted; second, where the instrument is badly adjusted, but the reading otherwise correctly taken. The first is entirely due to carelessness on the part of the observer, and is generally punished by a fine, the second probably to ignorance, and it was to remove errors of the second kind that these observatories had to be visited. It was found that none of these observers knew how to lower the vernier until it was just touching the column, and that they were also not in the habit of keeping the eye in a horizontal line with the top of the mercury. These faults are of the greatest importance because they occur so frequently in the case of new observers, and are only found out after the observer, who has given over charge, has left the station, so that there is no possibility of removing the errors except by sending some one from the head office. remarks; though given under the head of Dhubri observatory, are equally applicable to Julpigoree, Rungpore, and some others. Though these errors were of daily occurrence during the monsoon, it will be seen in a table given below that very few errors of the other kind, that is the result of carelessness, have been made by the observer at Dhubri.

Dinagepore -Visited on 12th June 1888. The observatory was in good order, and the observer punctual in taking observations, but being at that time lately appointed, he was unable to read the barometer with accuracy. The method of adjustment was fully explained to him, and a series of readings

taken which shewed that the error of the barometer had not altered.

Durbhunga—Observatory was inspected on the 17th January 1888, and twice in 1889—on the 22nd March and 23rd August. The observatory remained a voluntary one till the 1st January 1889 when an allowance of Rs. 10 a month was made, though this was not full remuneration for the observations supplied according to the ordinary rate of payment of observers in the department. Just before the first visit the shed had been dismantled and the thermometers removed to a room in the hospital, and they remained there till very recently when a new shed was finally erected. During this interval the thermometer readings were worthless, as they gave the temperature of the room and not that of the open air, and they have therefore been rejected in forming averages. The instruments were generally found to be dusty, but the barometer, though old, was capable of giving accurate readings.

Furreedpore—Observatory, visited on the 16th January 1888, was found to be in fair condition, but the observer was in want of instruction on the adjust-

ment of the barometer.

Gya—Observatory, when inspected from 26th to 29th January 1888 by Mr. Eliot, was in fair condition. The rain-gauge and anemometer wanted repair or renewal, but the thermometers were in good condition. The chief object of the visit was to find out the cause of the discrepancies in the barometer readings, and after a series of comparative readings it was found that the correction was '016 inch instead of '003 inch, as obtained at Alipore. When next visited on the 24th October 1888, it was necessary to make arrangements for moving the instruments nearer the new cutcherry. The wind instruments were fixed on the highest part of the roof of the cutcherry parapet, and the thermometer shed was placed in an open space near the treasury guard. The instruments were all found to be in good order. In September 1889 the observatory was again found to be in good condition, except that the barometer tube had become loose in the case, but the error resulting was inappreciable.

Hazaribagh-Observatory was inspected on 10th April 1889 mainly for the purpose of arranging for the mounting of the new Beckley's anemograph. The instruments, records, and thermometer shed were all in excellent condition. "Arrangements were made in consultation with Dr. Moorhead and the Public Works Department subordinates as to strengthening the anemograph house to receive the new instrument." Though all preliminaries were then seen to, the work was never carried out by the Public Works authorities, and as a Beckley's anemograph was lately urgently required at Allahabad, Mr. Eliot ordered the transfer of the one at Hazaribagh, so that no further anemograms will be received from this station.

Jessore-Observatory was inspected three times, and on each occasion was in fairly good order, but when visited by Mr. Pedler on the 8th February 1889 the observer was twelve minutes late in arriving to take the observations, a matter of considerable importance, as at 8 A.M., all the meteorological elements

are rapidly changing.

Julpigoree - Observatory, when inspected by Mr. Pedler in March 1888, was in a most unsatisfactory condition, the observer having taken leave without informing the Calcutta office, and left his daties to be performed by a man very ignorant of the methods of adjusting and reading the instruments. On Mr. Pedler's recommendation the observatory was transferred to the local post office, and with the consent of the Postmaster-General, the Postmaster was appointed observer. Babu C. C. Chatterjee was sent in June of the same year to train the new observer and to select the most suitable positions for the thermometer shed, the barometer and the wind instruments. A change of observers was made in the following year, and from that time very unsatisfactory reports were made for the reason already stated in connection with Dhubri observatory. After Mr. Gilliland's visit the barometer readings were more satisfactory, but those of the maximum thermometer have still been unreliable from the observer's failing to understand the method of setting the instrument after reading.

Krishnaghur-Observatory was inspected twice during 1888, and was found

in satisfactory condition.

Maldah-Was visited in December 1887, the readings reported being unreliable. The instruments were in very bad order, and the observer unable to read them with accuracy. He received full instructions as to the method of procedure, and has continued since then to give more satisfaction, but, as shown by the table given below, he is not one of the most careful observers.

Midnapore—Had to be visited in May 1887 because of the very low readings of the barometer. The instrument was found to be in bad order, but the observer was also very careless in his adjustment. He benefited by the instruction then given, so that further inspection visits have not been considered necessary, but there is still a certain amount of carelessness shown in his returns.

Motharee-Observatory was in a very satisfactory condition when visited by Mr. Pedler in January 1883 and March 1889. The object of the second visit was to arrange for the handing over of the observatory to the Civil Surgeon from the 1st April 1889, his clerk becoming observer. The instruments were in the same excellent order as when previously inspected, and Mr. Pedler has recorded that "Mr. Clarke the Supervisor, Public Works Department, must be thanked for the general care he has shewn in the charge of the observatory." As the new observer was not well qualified for the work of observing, a third visit was made by Babu C. C. Chatterjee, who gave the required instruction as to reading the barometer and wind vane, and saw that the instruments were thoroughly cleaned and oiled.

Mymensingh-Observatory was inspected on 14th January 1888 and 3rd February 1889. The instruments were in fair condition on both occasions. but the observer had, each time, difficulties which could only have been

removed by verbal instruction.

Noakhally-Visited from 5th to 7th January 1888. The observer was found to be reading the barometer too low from wrong adjustment of the vernier. The instruments were in fair order, with the exception of the wind vane and anemometer, which were replaced by new ones.

Nya Doomka-Observatory was inspected in August 1887 by Babu C. C. Chatterjee. The observer read his instruments quickly and correctly. Most of

the instruments had been well kept. The Inspector removed all defects, and the new instruments wanted were supplied immediately after his return to Calcutta.

Patna—Observatory has been inspected three times—in March and October 1888 and September 1889. The instruments were in good order, except where they had become unserviceable from wear, in which cases new ones were supplied. On the occasion of Mr. Pedler's visit in October 1888, the observer was more than half an hour late in arriving to take the observations, and as the records at the telegraph office shewed that the telegrams to Simla were invariably late in being sent for despatch, the observer was fined.

Purneah—Observatory was inspected in December 1887, August 1889, and March 1890. When first inspected the observer took the readings quickly and and correctly, but the observatory was not in good order in several important

particulars.

Rampore Beauleah—Was visited on the 19th June 1888. The instruments were in very bad order, from want of attention on the part of the observer, the thermometers being unserviceable, and the wind instruments working with a great deal too much friction from want of oil. He read the barometer very slowly and with doubtful accuracy. During the past year the results have been more satisfactory, and very few careless errors have been discovered.

Raneegunge—Observatory was inspected in August 1887 and in January and October 1888. The instruments were mostly in good order, and the observer

was found to read the instruments quickly and correctly.

Rungpore—Inspected in June 1888, October 1889, and March 1890. During the first year the observatory was in a most unsatisfactory condition, the observer shewing great want of punctuality and being very careless in keeping the instruments in order. As the shed was very near the post-office, the Postmaster was appointed observer. But when the observatory was next visited by Mr. Gilliland in October 1889, the observer was found to be reading the barometer very inaccurately, not altogether from carelessness, as he was very willing to learn but because he had failed to understand from the Vade Mecum, the method of correctly setting the instrument. As far as time would permit, he was drilled in setting and reading, and when Mr. Pedler inspected the observatory in March last, he found the observer read only a few thousandths of an inch too low, probably owing to somewhat defective vision.

It will be seen from the preceding remarks that in many cases the defective observations are not due to carelessness so much as to an imperfect knowledge of the duties, for which the observer cannot be said to be blameworthy, unless he has had previous opportunities of direct instruction. The only way of introducing improvement is to have an officer who may be in a position to go to any observatory when required, and to stay there instructing the observer till there can be no further doubt as to his being able to read all the instruments with the

utmost accuracy.

In addition to these errors arising from ignorance on the part of observers, frequent careless errors are made by some. These are generally discovered by comparison at the head office, and from the records, I have arranged in the following table the observatories according to the number of errors made during the past year, partly to show how careless some observers are, and partly to show which observers are making every effort to give satisfaction:—

Under five mistakes.	Between five and ten mistakes.	Between ten and twenty mistakes.	Over twenty mistakes
Akyab. Berhampore. Burdwan. Buxar. Chybassa. Coconada. Dhubri. Gopalpore. Hazaribagh. Krishnaghur. Madras (Port Office). Nya Doomka. Patna.	Arrah. Bankoora. Bogra. Cuttack. Dehree. Dinagepore. Durbhunga. False Point. Gya. Jessore. Motiharee. Mymensingh, Purneah.	Bhagulpore. Chittagong. Chupra, Dacca. Darjeeling. Furreedpore. Maldah. Midnapore. Nellore. Noakholly.	Balasore. Burrisaul. Comillah. Julpigoree. Pooree. Rungpore.

Between five and ten mistakes.	Between ten and twenty mistakes.	Over twenty mistakes.
Raneegunge Saugor Island.		
	Raneegunge	Raneegunge mistakes.

To make the observers more careful, a system of fining has been employed for some time, and the observers who have been most frequently punished during the year ending March 1890, are those at Balasore, Burrisaul, Chittagong, Chupra, Comillah, Gya, Noakholly, Pooree, and Rungpore. The observer at Comillah was fined sixteen times, at Balasore eight times and most of the

others five times.

Most of the inland stations have been inspected some time during these three years, but it has been impossible to visit the stations on the coast. The observations, however, have been carefully watched, and any errors made immediately brought to the notice of the observers, so that those who are in the habit of taking careless readings are at once reminded that more care is necessary. A condition of high efficiency is maintained, as shown by the accuracy with which the movements of storms in the Bay can be followed. In connection with Chittagong observatory, I have shown from what cause the greatest risk of failure in supplying accurate information arises, and that it is in a fair way of being removed.

In past years the condition of the lines connecting Diamond Island and False Point with the mainland has been the subject of comment. During the year 1889-90 there was no serious stoppage at either station, but the weather was never very stormy during the monsoon season, so that they were not put to the same test as in other years. The telephone line between Hookeytollah and the False Point Lighthouse has been thoroughly overhauled, and the telephone replaced by Morse instruments which will soon be in use. Though the telegraph authorities think it unlikely that the line will, even now, be able to stand the strain of very stormy weather, there is no doubt but that it will

now be much more reliable.

The number of rainfall recording stations during the past three years is

Rain recording stations. as given below:—

YEAR.			Stations.
1887-88	 		250
1888-89	 		255
1889-90	 a Etrophologic	MEN COUNTY	258

These stations have generally despatched their returns with great regularity. There were, however, a few exceptions. Piplee submitted no returns throughout the year. Sorah, Balasore, Azimgunge, Patkabari, Bogra, and the more outlying stations in Purneah, Mozufferpore, Lohardugga, and Singbhoom were late on several occasions.

With a view to obtain daily meteorological observations from the pilotbrigs cruising at the Sandheads, Mr. Pedler, with the assistance of Mr. S. R. Elson, devised and issued a special code by means of which the meteorological observations taken in the pilot-brigs can be reported by a single hoist of four flags displayed in passing Saugor Island Lighthouse and thence telegraphed to the Meteorological Office.

These telegrams have been received with fair regularity. The observations seem to have been taken from different instruments and probably by different persons from time to time, so that the pressure reported is not very reliable, especially as there has sometimes been difficulty in ascertaining to what day the observations belong. A list given below shows the number of telegrams received each month since the system was started.

June 1	1889			1	November	1889	Nil.
July	39			17	December		13
August	99	***		9	January	1890	 10
September	"		15000	17	February	.,,	15
October	12			1	March	25	 13

The following table shows the number of instruments supplied to the observatories under my control during the last three years:—

List of Instruments issued to the Observatories in Bengal and Assam during 1887-88, 1888-89, and 1889-90.

		HYC	PRO- FER.	thermo-	MINI THE MET	RMO-	RADIA THEI MET	IMO-	eter,	vano.	ge.	glass.			er cage.		ieter cage.	·i		Barouse-
	Barometer.	Dry.	Wet.	Maximum meter.	Dry.	Wet.	Solar.	Grass.	Anemometer,	Wind var	Rain-gauge.	Measure-glass	Clock.	Lantern.	Barometer	Lens.	Thermometer	Sand-elass.	Watch.	Aneroid
Akyab								A	8	В	47	В								1:
rrah	Δ	1276	***	Ä	2.00	***	***	***	C	Ä	В	В	***	444	300	244	E-10	***	***	1:
alasore	***		****			***	****	1000	A	В			100	C				9.55	***	
Berhampore		***	***	1 33	***	***	***	***	- 12	A		1.00	Λ	***	Dist		141	***		1
shagulpore	AC	***	***	В	C			***	2C	C	200	211	172	*	Α	***	7.00	***		
ogra	Ä	100	144	100	M17/25-3 (13)	***	***	***	Ċ	***	***	***	***	Ü	1	***	***	***	***	
urdwan			***		***	1334	***	***	***	B	***	***	***			/::			2	1
uxar		1 440	B	100	411	***	***	Sept.	A.	***	В	A	100	***		***	***		1	1.
hittagong	Time I	***	1	B	**	***	***	*45	Ä		***	***	7	****		***	***	C	***	13
hupra hybassa	***		1	В	Δ	***		***		***		7777	Λ	***	127	***	***	***	125	1
oconada	***	***										***	***	***		222			401	1
omillah	164	C	Ö	444	Ö	***	***	-77	***	***	***	***	***	***	***	***	***	***		1
uttack	ÄB	100	A	111	B	B	***	Λ	Ċ	В	****		***	***	B	27	100	C	200	No.
acca	(Christian)	244		Ö	ъ	100/1000	Ö	C		B	***	B	***	***	ъ	Λ	***	BC	***	1
ehree			***	A		1			***	- ***	***	A	111	***		***				
emagiri		***	1000	200		***	TENNE !	400	***	***	944	C	1	***	144	****	***	1070	1000	18
hubri	č	***	B	100	511	***	B4C	A	A	Ä	(44.07	Α	***	***	***	***	***	В	C	13
inagepore	***	***	Ä	***	2	***		***		A	***	7.00	***	***		***		***	***	10
alse Point		***			J. 444 (2003		75000	10240		Ä	1			***		110		15
ureedpore	384	++4	***		***	***	***	***	100	***	100	В	***	***	***	200	***	***		1.
opalpore	200	***	***	***	Breton C	ö	***	***	В	B	B	B	100	C	***	***	144	***	***	1
nazaribagh	2C	***	***	1000	***		SBC	***	Ä	10000		В	***		***	Orto.	***	***	111	et so
essore	BC			0.22		1	***	144		B	744			***	456 340	-		***		1
ulpigoree	ë	***	***	0				***	B		***	医极大性			В	2440	***			
rishnaghur		B	B	B	B	***	1 444	144	B	B	В	C	***	411	***	В		***	400	
ladras	B	B	B	B	ъ.		100	***	A	1	B	В	1	1	7.	12.0	В	В	***	12
idnapore	AB	***	111		***	***	***			4 7 4 6 1	***		1			***				E
lotiharee	A	***	1.7	2C		11.00	1	111	В	A	144	Sec. 11	***		2000	3.11	444			
lymensingh	***	B	В	C	B	B	***	***	В	A	B	AC B	***	***	B	244	4.1	Ë	***	1
lellore	В	D	B	B		D	- ::		A2B	N. A. P. S. S. S. S. S.	В	B	***	111	B	211	B	100000000000000000000000000000000000000	***	10
ya Doomka	1	1	100				1			B	***							***	***	1
atna	B		1	17%	10	-11	444	***	C		B	444	***	***	***		GRAND CU-CO	***	***	
coree	Λ	Α	Δ.	AC	AC	***	***	***	AC	A	A	A		461	200	144	A	Α	***	P
urneah lampore Beau-	***	***	A	B	0000	-13		***	В			177	13	777	1200	77	***	C	711	13
leah.		1886	MET U	Enriet S	Paris .	15.5	100	SITT	1200	15.500	Miles C	0.400	133	25	Cana.	***	***	***	111	13
anchee	Ä	***	***	100	***	***	4.00	***	***	Ä	***	411	/253	***				22		16
aneegunge	B	144	***		***	***	***	***	Δ		120	1	***	***		Aur.	144	(36-35	***	1
ungpore		***	***		J. ***	***	BSC		Ä	***	***	***	1	Ä	***	***	***	Ö	****	1
erajgunj			***				1	***		- 37		Δ	100		***	***			1	
hsagor	B	441			***	1000	B3C	***	.00	***	***		Ë	***	***	***	***	***	***	E
lebar	AB	Ä	Ā	Ä	Ä	Ä	****	***	Ä	Λ	Ä	ÄČ		***	***	***	***	1054136	***	1
avoy	AD	110000		- A	A			***	***		A.	AU	15	***		100	Δ	AC	277	1
ura	MITCH 1078	В	5746	Section 1	101 444 00	ilast		***	(Ex. L. 2011)	100	144	100 F 400	1	***		10	100	200	***	J.
hortt's Island	B	B	B	B	B	***	***	***	B	B	B	B	122	-	****		В	В	100	6
ungleh	0	0	0	10	U	***	***	***	C	C	1000	100	***	***	1000	344	***	***		15

A-1897-88. | B-1898-89. | C-1899-

The following tables give a brief summary of the various cyclonic storms in the Bay of Bengal during last year, and the action taken by this office to warn the coasts affected by them:—

Table giving a brief statement of the storme which affected the Bay of Bengal coasts during the year 1889-90.

No.	Date.	Character of storm.	Coast affected.				
1	May, 21st and 22nd	Feeble depression off Pegu coast	It passed into the Central Provinces and merged into the area				
2	June, 9th to 11th	Small depression off Ganjam coast	of permanent low pressure. Crossed North Orissa coast on the				
3	June, 17th	Feeble depression in north-east of	the modern expression of the state				
4	June, 24th to 27th	Feeble cyclonic storm off Orissa const.	Crossed North Orissa coast a about 8 P M. on 26th.				
5	July, 12th to 20th	Small cyclonic storm off Orissa coast.	Crossed the coast between Balasor, and Sangor Island on the morn ing of the 20th.				

No.	Date.	Character of storm.	Coast affected.
6	August, 5th and 6th	Small depression over the head of the Bay.	Crossed Orissa coast near Pooree.
7	August, 15th to 17th	Small depression over the head of the Bay.	Passed northwards.
8	August, 25th and 26th	Feeble depression off Orissa coast	Passed inland.
9	September, 16th to 19th	Cyclonic storm formed in the centre of the Bay moved in a westerly direction.	Crossed Ganjam coast on the even- ing of 18th.
10	September, 25th to 27th	Feeble diffused depression in the north-east of the Bay.	Passed northwards.
11	October, 4th to 11th	Shall w depression off Circars coast.	Merged into the area of uniform pressure.
12	October, 13th to 16th	Feeble depression off Orissa coast	Crossed coast on the morning of the
13	October, 21st to 27th	Shallow depression, formed off Orissa coast, and moved slowly in northerly direction	Crossed coast east of Saugor Island, passing over Sunderbunds on the 27th.
14	November, 2nd and 3rd	Small depression in the Gulf of Martaban.	Moved northward towards the land.
15	November, 13th to 20th	Cyclonic storm formed in the southern half of the Bay.	Approached Madras coast till the 18th then moved rapidly in a northerly direction, the centre passing inland near Gopalpore on the morning of the 20th. Gave heavy gales on the Circars and south Orissa coast.
16	December, 16th to 18th	Small depression in the south-west of the Bay.	Crossed Madras coast to south of Negapatam on the morning of the 18th.
17	December, 23rd to 26th	Small depression formed in the south of the Bay.	Moved in a north-westerly direc- tion, and crossed the coast as a feeble depression near Nellore.

Table showing the action taken by the Calcutta Meteorological Office in warning the coasts affected by the storms enumerated in the above table.

in	Ho.	ISTING OF STORM SIGNALS		WARNING OF PORTS B	Y CAUTIONARY TELEGRAMS.		
ber.	Ports ordered to hoist signals.	When hoisted.	When lowered.	Ports warned by cautionary telegram.	Time and date of despatch of cautionary telegrams.		
1	_			Madras and Rangoon	11-15 a.m. of 21st May. 11-15 a.m. of 22nd May; 11 a.m. of 23rd May. 9-25 a.m. and 10p.m. of 22nd and 11 a.m. of 23rd May.		
3	Saugor Island Mud Point Diamond Harbour	9th June 10-50 hours Do. 10-40 , Do. 10-50 ,	10th June 19 hours Ditto 18-55 ,, Ditto 19 ,,	Madras and Rangoon Gopalpore, Calingapatam, Bimlipatam' Vizagapatam and Coconada.	10-50 a.m. of 8th June. 10-10 a.m. of 9th June.		
	Budse-Budge Calcutta, Pooree, False Point, Chandbally, and Balasore.	Do. 10-25 Ordered to hoist at 10 hours of 9th June.	Ditto 18-20 , Ordered to lower at 18 hours of 10th June.		10-12 a.m. of 9th June.		
3	Salama Version	mir all lover	山田和方	Chittagong	10-10 of 16th June,		
1	Saugor Island Mud Point	26th June 11-1 hours Do. 10-45	27th June 10-47 hours Ditto 10-45 .,		9-40 s.m. of 25th June.		
*	Diamond Harbour Rudge-Budge Calcutta, Pooree, False Point, Chandbally, and Balasore.	Do. 10-46 , Do. 10-12 Ordered to heist at 10-30 hours of 26th June.	Ditto 10-46	Gopalpore and Calingapatam,	10-23 a.m. of 25th June. 11-10 a.m. of 25th June.		
1	Saugor Island	15th July 10-50 hours	21st July 6-10 hours	Pooree, False Point, and Go- palpore.	of 15th - 10.90 of 10th . 10 07		
	Mud Point	Ditto 10-40 .,	Difto 6-14 .,	Madras	19th, and 11-6 of 20th July. 10-50 of 12th; 10-25 of 18th; 11-1 of 14th; 10-35 of 18th; 10-20 of 16th; 10-37 of 18th; 10-55 of 19th		
5	Diamond Harbour	Ditto 10-30	Ditto 6-15	Calingapatam, Bimlipatam, Coconada, Vizagapatam, and Masulipatam,	and 11-12 of 20th July. 10-45 of 14th; 10-15 of 15th; 10-1 of 18th; 10-32 of 18th; 10-37 of 19th, and 11-6 of 20th July.		
	Budge-Budge Calcutta, Pooree, False Point, Chandbaily, and Balasore.	Ditto 9-58 Ordered to hoist at 10 hours of 15th July.	Ditto 6 Ordered to lower at 5-34 hours of 21st July (excep Pooree, which was order ed to lower at 18-25 o 20th July.)		ista, and isto of soil out.		
	Saugor Island Mud Point	17th September 17 hours Ditte 17 ,,	19th September 5-5 hours.	Gopalpore, Calingapatam, Bimbipatam, Vizagapatam, Madras, and Coconada.	16 hours of 17th; 10-24 and 15-45 of 18th; 4-20 of 19th September.		
9	Diamond Harbour Budge-Budge Calcutta, Pooree, Palse Point, Chandbally, and Balasore,	Ordered to hoist at 15-	Ditto 6-15 Ditto 4-45 Ordered to lower at hours of 19th September				

onm-	В	OISTING OF STORM SIGNAL	a.	WARNING OF PORTS BY	CAUTIONARY TELEGRAMS,
Storm n	Ports ordered to heist signals,	When hoisted,	When lowered,	Ports warned by cautionary telegram.	Time and date of despatch of cantionary telegrams,
11 12 13	Pooree, Falsepoint, Chandbali and Balasore Saugor Island Mud Point Diamond Harbour Budge-Budge Calcutta	Ordered to hoist at 10-25 of 7th October. 	Ordered to lower at 10-43 of 8th October 10-5 hours. Duto 10-5 " Ditto 10-5 " Ditto 10-30 " Ordered to lower at 9-20 of 27th October.	Gopalpore and Madras Coconada, Masolipatam and Madras.	10-37 of 7th and 10-50 of 8th October. 16 hours of 15th and 10-30 of 16th October.
15	Saugor Island	angers .	20th November 15-45 hours Ditto 15-55 Ditto 15-15 Ditto 15-27 Ordered to lower at 15-30	Bassein, Rangeon, Moulmein, and Tavoy. Madras, Gopalpore, Bimlipa- tam, Coconada, Vizagaspatam, Musulipatam, Negapatam, Akyab, and Rangoon. Pooree, False Point, Chand- bally, and Balasore.	17th; 10-10 of 18th (except Genalpore, Akyab, and Rai- tacon); 11-40 and 18-40 of 19th; 10-40 of 20th November. 10-35 of 14th; 10-15 of 15th; 10-40 of 16th; 10-25 of 17th; 18-40 of 19th; 10-50 of 20th
16 17	Calcutta, Forec, Faise Point, Chandbally, and Balasore.	of 19th November.	of 20th November.	Chittagong	November. 10-26 and 19-40 of 19th; 10-40 of 20th November. 10-20 and 17-50 of 17th; 10-20 of 18th; 11 hours of 19th December. (Mauras 10-2 of 22nd); 10-57 of 23rd; 9-50 and 15-25 of 24th;

An additional weather signal for the approaches to the port of Calcutta and for the port itself, called the cautionary signal, has been introduced amongst the existing weather signals by a notification issued on the 29th June 1889.

During last year the Madras Port authorities represented to Government the desirability of receiving daily information as to the weather passing over the Bay, and in consequence the duty has been entrusted to the

Calcutta Meteorological Office. With a view to give the fullest information regarding the whole Bay, Mr. Pedler devised a special meteorological telegraphic code, a manuscript copy of which was sent to the Presidency Port Officer, Madras, on the 28th March 1890, and the first telegram giving such information commenced from the 4th April 1890.

Weather reports. The regular reports which are issued by this Department are—

1st.—Monthly reports of the meteorology of Bengal and Assam which are also illustrated in a few cases with maps drawn by hand representing the actual rainfall, the variation from the normal, and the rainfall expressed as a percentage of the normal fall. Copies of these maps were also regularly supplied to the Sanitary Commissioner, Bengal.

2nd.—Weekly reports of the meteorology of Bengal and Assam, and particularly of the rainfall of Bengal.

Both the monthly and weekly reports have been published regularly throughout the year in the Calcutta Gazette. The date of publishing of the monthly reports has been in almost every case that of the second Gazette after the close of the month in question, while each Gazette has dealt with the weather statistics of the week up to and including the Friday previous to its issue.

Two other general reports of the meteorology of Bengal are also prepared—the first is the meteorological summary for the whole year prepared and submitted to Government in July for incorporation in the Bengal Administration Report. It was illustrated by maps showing the actual rainfall of the year, and its percentage variation from the normal. The second general report deals with the meteorology of the monsoon season only. This was prepared as usual, and it appeared in the Calcutta Gazette of 18th December 1889. A few copies of maps representing the actual monsoon rainfall, its variation from the normal, and the percentage of the actual rainfall as compared with that of normal years, were also prepared for submission with this report.

The Daily Bengal Report, which is published during the monsoon season, was issued regularly from the 27th of April to the 2nd of November. It dealt with the observations of 42 stations, and it was issued to 101 Government officers

and to 15 private subscribers.

The Bay of Bengal Daily Weather Report of the Storm Signal Service was issued regularly throughout the year. The usual time at which the report is printed and ready for distribution is between 10-30 and 11 A.M., and it contains the observations made at 8 A.M. at 25 stations in India and Burma, and at two stations (Galle and Trincomallee) in Ceylon. In the latter case the observations are taken at 9-30 AM., and they consequently cannot be included in the report for the same day, but appear in that of the day following. The report is prepared and issued mainly to give information as to the state of the weather in the Bay of Bengal and over the surrounding coast areas, and to enable the Storm Signal Service to be worked effectively by the Reporter.

This report was supplied free to 43 Government officers and 23 subscribers, paying at the rate of Rs 2 a month. The receipts from subscribers during the year have covered the cost of printing the reports in this office and of distributing them. There was a small balance at the end of the year 1889-90. This amount was kept in hand to meet urgent demands for repairs to the litho-

graphic presses, &c.

Previous to 1st January 1890 during the monsoon months, May to November, a daily chart was prepared showing the meteorological conditions obtaining over Bengal as communicated to the Calcutta office from the various observatories by telegram. But since the 1st January 1890 five separate charts graphically showing the various meteorological data are being prepared, and this work will be continuous for the whole year in future. These charts are drawn by hand and filed in the office for reference.

Special work .- A special report was prepared by Mr. Pedler giving a full account of the cyclonic storm in the Bay of Bengal of 21st to 28th August 1888. It was submitted to the Meteorological Reporter to the Government of India on 3rd August 1889, and published by the department as "Cyclone Memoir,

Part II," in March 1890.

There has been no change in the office establishment during the past year. Under the very efficient superintendence of Babu F. M. Basu work has gone on smoothly, and the opinion I have formed during the few months the office has been under my charge enables me fully to endorse the very favourable expressions which Mr. Pedler has recorded in previous reports.

METEOROLOGICAL OFFICE, Calcutta, the 27th June 1890. C. LITTLE,

Offg. Metcorological Reporter to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 2nd August, 1890.

	No.	District and return.		of		Rainfall at Sudder Stationin inches.	
BE	NGA	և,				Tre la	
		Western Di	etri	ets.			
			12-01		***	F.04	W () D + -6 - 26 - 2 T -1 T -1 C -6
	1 1	Burdwan Culna	Au	g. 2	, *90	2.80	Weather—rainy. Prospects of cultivation good Transplantation of aman going on. Prices of common rice:
	251	Cutwa			***	3.66 2.42	Srs.
		Ranigunge			***	2.42	Burdwan 15 Culus 13
							Cutwa 14½ per rupee. Ranigunge 15½
	2	Bankoora	4.	2	'90	6.85	Break in the rains in the latter part of the week. Transplanting of amun rice
						4750-100	still going on. Indigo is being cut. Sugarcane thriving. Price of common rice at Sudder 18 seers per rupee and at Bishenpore 16; seers per rupee.
	60					3.71	
3	3	Rampore Hau	ıt "	2,	'90	3.25	Very heavy showers of rain. The present condition of the crops is extraordinarily good. All low land cultivated, and an unusually large area of high
BURDWAN DIVE.	erni	74mm Attorney	TA IC			atel ate	land as well.
AS I	(ar territoria				1350	。
DW	4	Midnapur		2	. '90	0.74	Weather-fine with occasional showers. Paddy and indigo doing well. Paddy
BUR	12.00			EI.			still being transplanted. Prices of common rice:— Srs.
						1	Sudder 15
	Tent						Contai 18 per rupee.
		4 15				2.05	Ghatal 16)
	5	Heoghly Serampore	"	2	, '90	1.95	Weather—close and cloudy. State and prospects of crops good. Prices of common rice:—
		Jehanabad			***	7.50	Srs.
	U. on	e de la companya de l					Sudder 131 } Serampore 16 } per rupee.
	Veg.					1.11	Jehambad 141) Weather—seasonable. Transplanting of amus continues. Crops as a rule
		Howrab Uluberia	91	2	, '90	3.02	doing well. Common rice sells at 13 and 14 seers per rupee.
		Central Dis	trini			Same a	
	1	5 (1) 1 (1) (1) (1) (1) (1) (1)		184	100	2.27	Weather hot and clear. Prospects of aus and jute fair. Transplantation of
	6	24-Perghs.	Au	g. o	, '90	THE RESERVE	amun point on but more rain wanted. Prices stationery
	7	Nuddea Kushtea	33	2,	'90	3·82 3·56	Weather—seasonable, 2.66 inches of rain fell on Monday last (28th). Prospects of crops good. A considerable portion of the aus and jute plants on chur
N.	100	Meherpore			***	4.50	lands in the Kushtea subdivision has been destroyed by the rise of the river
DIA	177	Chuadaoga Kanaghat			***	1.69 2.65	The rivers have risen higher than usual for the reason.
PRESIDENCY DIVE.	8	Khoolns	**	2,	0	4.91	Weather-rainy. Prospect and condition of crops continue favourable. Trans-
HN(Satkhira			***	1.83	plant-tion of amun still going on. Some damage is being done to amun paddy by insects.
RSIT	. 9	Јевноте	**	2,	'90	2·77 9·50	Weather—rainy and cloudy. Prospects of standing crops good. Harvesting of aus going on. Price of rice has slightly risen.
PR		Juenidah Magura			***	2.83	and going oil. Trice of rice has sugardy riself.
	COLUMN COLUMN	Narail				1:56	
	10	Bongong Moorshedabad	SIG.	2.	90	7.46	Weather-wet. Rivers very high. Damage done on some low lands. Aus and
		Lalbagh				9. 8	, amun standing promise very well.
		Kandi Jungipore		24		3.86	
	11	Dinagepur Thakurgaon	"	2,	'90	9·21 4·82	Weather - very wet. Haimanti transplanting is still in progress. Prospects continue to be very favourable. Price of rice unchanged.
	1.0				***	Figures	
	12	Rajshahye	**	2,	'90	not given	Weather—rainy and cloudy. Cutting and steeping of jute in progress. Sowing of winter paddy in the Barandra tracts almost finished. A few days' cessation
		Nattore				6.62	of rain is necessary for the purpose of weeding.
100	13	Rungpur	,,	2,	'90	7.37	Weather-cool and cloudy with frequent heavy showers. All standing crops
F	and a	Nilphamari Kurigram			***	5 97	promising well. Jute is being cut and steeped. Amen is being trans- planted. Am is being cut.
R L		Gaibanda			***	11 03 6:16	There has been scarcely any sunshine during the week, and a break in the rains
HI	14	B gra Sherpur	**	2,	'90	5.79	would now do good. All crops are doing and promising well down size
RAJSHAHYR DIVE		Nowkhilla				6.65	has been transplanted already on about half the area usually cultivated with this crop. Common rice selling at 19 seers per rupee.
RA.	15	Pubna	.,	2,	'90	2.34	Weather cool and rainy. Prospects of aus, amun, and jute continue good
TO N					1		though the rise of the rivers threatens to do damage to the crops standing on low-lying lands. Jute and aus are being reaped. Prices have decreased
			13			22.69	still more.
134	16	Darjeeling	**	2,	'90		Weather—continues very wet. Rainfall at Darjeeling 33 inches over the average. Sun much wanted for tea. Four annas of the jute crop spoilt by rain
	17	?ulpigoree		0	'90	6.96	in the Terai. Bhadot crop doing well. Weather—rainy and cloudy. Reaping of aus commenced. Transplanting of
DOM:							

N	lo.	District and o		of	Itain at su Static inch	dder on in	Character of the weather and state and prospects of the crops.
DEX	CAL						
BEC	NGAL	-concluded.					
	18	Eastern Dis		2, '	90 2	8-85	Weather-cloudy and rainy. Harvesting of jute and ans paddy going on.
							Damage to aus paddy anticipated owing to high flood. Amun paddy thriving. Fodder not available in abundance. Price of common rice stationary.
DACCA DIVN.	19	Furreedpur		2, "	90 3	1-69	Weather—seasonable. The river has risen very considerably and has over-flooded a large portion of the Sudder sub-division and submerged the crops. If the flood remains at its present level for some days more, the crops will be seriously damaged. The outlook in Goalundo and Madaripur is, however, reported to be hopeful. Price of rice stationary.
	20	Backergange	,,	2, '	90 2	93	Weather—seasonable at sub-divisions, but hot at Sudder. State of standing crops generally good. Common rice selling at about 13 seers 8 chittacks per rupee.
	. 21	Mymensingb		2, '	90 6	3.03	Weather—cloudy and sultry with heavy rain almost daily. Aus paddy excellent and is b-ing gathered. Jute somewhat injured by incessant and early rain. About half the normal area transplanted with amun paddy seedlings. Coarse
CHISTAGONG DIVE.	22	Chittagong		2,	90 22	2.00	rice sells at 13\frac{1}{2} cers per rupee. Weather—seasonable. Cultivation was at a standstill in consequence of the heavy rainfall during the first part of the week, but it is again in progress. Some damage, but not very much, appears to have been caused to the assertop by the heavy rain. Lands are being prepared for amun. Common rice
NOB	23	Noakholly	,,	2,	90 7	7.69	selling at 16 seers per rupee. Weather—cloudy and rainy. Resping of aus crop progressing. Amun crop is
CHIETA	24	l'ipperah		2,	906	6.88	being transplanted. Cocoanuts maturing and in good condition. Weather—cloudy, wet, cool. Aus and jute are being cut. Amun is being transplanted. Prospects good. Rice selling at from 21 seers 5\(\frac{1}{2} \) chittacks to
	25	Chittagong Hill Tracts.	n	1,	90 10	0.01	13 seers 5\frac{1}{2} chittacks per rupee. Weather—rainy and cloudy throughout the week. Early jum paddy ripening. Cotton progressing. Transplanting in low lands commenced. Common rice is being sold at 12 seers 5 chittacks per rupee.
PRI	HAR.	Hill Tipperah	31	1,	90 6	3.12	Weather—rainy and damp. Harvesting of aus and til finished in some parts of the State. Amun still being transplanted. Jum crops doing well, Prices stationary.
DE	26	Patna		2,		7·43 7·87	Weather hot. Transplantation of paddy is being pushed on. Bhadoi crops
	27	Barh Dinapore Gya		2.	1	7·07 4·37	reported to have been damaged in the Barh sub-division owing to floods and inces-ant rain. Prices of some of the food-grains are slightly falling. Weather—hot and cloudy. Transplantation of paddy going on. Prospects of bhadoi not favourable owing to incessant rainfall. Prices of food-grains
	28	Shahebad Buxar	.,	227.70		3·36 3·24 3·54	weather—rainy and cloudy. Prospects of the bhadoi crops in the Sudder and Buxar sub-divisions are not favourable owing to excessive rainfall. In other sub-divisions the crops are doing well. Transplantation of paddy in progress.
×		Bhabuah Sasseram				2·44 5·81	Prices stationary. Weather—cloudy with frequent rain. Bhadai and rice crops in north-western
PATNA DITE	29	Durbhungs Madhubani Somastipur			13	3·27 9·32	part of the Sudder sub-division considerably damaged by floods of the Bagmati and Kamla. Elsewhere prospects continue favourable, but a break in the rains is urgently needed. Indigo manufacture in progress. Prices fa'ling.
4	30	Mozafterpur Hajipur Sitamarhi	i.	36.50	***	6·17 7·94 6·51	Weather—cloudy and wet throughout the week, and no sign of a cessation of the rain at the time of report. Excessive rain has done much damage to the bhadoi crops and low-lying paddy in parts. The Toorkee bund has been cut, and much water is pouring over the country south of it, causing serious injury to indigo, makai, and other crops. Area affected cannot yet be
	31	Sarun	.,	2.	90 1	0.86	reported. Weather—very wet and stormy. Bhadoi wants sun badly. Some low rice lands
	32	Chumparun		2,	'90	9.44	swamped. Indigo outturn fair. Weather—cloudy. Main almost daily, resulting in slight damage to bhadoi. Fine we ther anxiously looked for. Transplantation of paddy nearly finished. Indigo manufacture continues.
	33	Monghyi Beguserai Jamui		2.	1	0.06 0.35 9.62	Heavy rain and cloudy sky. Very little sunshine. The excessive rain has injured the bhadoi crops, and along the Ganges they have been submerged to a large extent.
DIVS.	34	Bhaguipur Banka Mudhepura Soopool		2,	90 1	11·1 4·14 11·0 14·4	Heavy rain and continued cloud. The very heavy rain during the week and the rising of the rivers have done some damage to the marua and makai crops. Prospects of the rice crop are good, but a break in the rains with some sunshine is now wanted.
BHAGULFORE DIVR.	35		е ,	. 2,	'90 	7·84 4·79 4·08	estimated outturn 12 annas in Kishengunge and 14 annas in the rest of the
BHAG	36	Maldah Chanchal Snibgunge		2,	'90 	5·20 6·68 4·29	Weather very wet. Rain every day. Transplantation of amen co times Bhadoi has been much injured by excessive rain and early rise of the rivers
	37	Gajole Sonthai Perglas Deoghur Rajmehal Jamtara Godda Pakour		, 2,	44	4·86 4·85 7·21 2·92 3·96 4·38 2·85	Weather—cool. Constant rain during the week has somewhat damaged the makai crop. Transplantation of rice going on, and mostly completed. Owing to heavy minfall rice cultivation on high lands more than usual A spell of sunshiny weather now much wanted.

Ño.	District and retur		Rainfall at Sudder Station in inches.	
RISSA				
a8	Cuttack	Aug. 2, '90	3.58	Weather—seasonable. Transplantation of sarad still going on. Sugarcane doing well. Prospects generally good.
1				是是不是一种。 第二个是一种是一种是一种人们是不是一种的。
39	Pooree Kuoorda	July 31, '90	1·04 6·90	Weather—seasonable. Transplanting and puddling of sarad rice in progress. Beali rice is being weeded. Cotton, sugarcane, &c., doing well. Price of common rice stationary.
40 IOTA	Balasore NAGPORE.	Aug. 2, *90	0.50	Weather—cool and cloudy, but almost rainless. Very little short of the usual area has been already sown or transplanted with rice, both sarad and guru More rain is much wanted, especially in the north of the district. Number of coolies on relief-works 41.
South	h-West Frontier	Agency.		DI COOLES ON TOMOT WORKS 221
41	Hazaribagh	Aug. 2, '90	2:51	Rainfall lighter. A partial break in the rains during the last three days of the week. Excessive rain has damaged Indian-corn and other bhados crops. Paddy is being transplanted, and good progress made. Rice selling at from 15 to 18 seers per rupee.
42	Lohardugga Palamow (up t	, 2, '90 to 28th July)	5·90 5·78	Weather—warm and cloudy. Rain daily during the week. Transplantation of winter rice is being carried on vigorously. Prospect of bhadoi good. No material change in prices.
43	Singbhoom	Aug. 2, '90	2.54	Seasonable rain on all but one day of the week Reports of the condition of the crops are most favourable from all sides. Tussur cultivation has only just commenced; its progress is very slight owing to wer weather.
44	Manbhoom Govindpore	" 2, '90 …	2·38 3·90	Weather during week favourable for the crops. Bhadoi crops doing well except in the Govindpore subdivision, where they are said to be suffering from damp. Price of rice 17 to 20 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT.,

P. NOLAN, The 5th August, 1890.

P. NOLAN,

Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from 27th July to 2nd August 1890.

			jo s	barometer		TEMPE	RATURE			HYGRON	ETRY.		WIND.			
Month.	Date.	Maximum in sun.	Number of hours bright sunshine,	Mean pressure baro at 32° Fabr.	Mean.	Maximum,	Range.	Minimum.	Mean wet bulb,	Vapour pressure.	Dew point,	Humidity.	Prevailing direction.	Miles recorded.	Rain,	Weather.
1890.		0	weil !	Inches.	.0	0	0	0	0	Inches	0	%			Inches.	
July	27th	123.6	0.4	29 589	79-9	84 6	8.8	75.8	77.9	0.931	77.1	91	WSW, SW and calm	70	1.12	Chiefly cloudy
,,	28th	151.1	Nil	•600	81-2	85.5	10.3	75 2	78-6	-944	77.5	89	WSW, SSW and calm	78	0.04	Chiefly cloudy
17	29th	136.5	"	•567	81.5	84.5	8.3	76-2	77 9	-909	76.3	85	W, SW and SSW	104	0.04	Chiefly cloudy
"	30th	150.7	1.8	•528	81.4	87-4	11:0	76-4	78-9	956	77 9	89.	SSE and calm	32	0.89	Chiefly cloudy
"	31st	155 3	3-9	-558	81-8	86-3	98	76 5	78-8	945	77-5	87	ESE, SSW and S by	82	0.02	Partially cloudy,
ug.	Tlst	149.5	5:1	-606	83.2	87-5	11-0	76.5	79 5	958	77-9	84	S by E, S and SSE	96	0.04	Partially cloudy,
"	2nd	150 6	7.6	-640	83.8	88.5	114	77.1	79.6	-957	77.9	83	SE, SSE and S	65	Nil	Partially cloudy.

					Inches.
The mean pressure of the seven days					29.584
The average pressure of the correspondi	ng period for	24 years,	SG.'s C	ffice	29.557
					Hours.
The total number of hours of bright sur	shine				18.8
The maximum possible number of hour				100	92.1
The second of th					0
The mean temperature of the seven day	8		VI		81.8
The average temperature of the correspondent	onding period		ars, SG.		82.9
The extreme variation of temperature					13.3
The maximum temperature			***		88.5
					Miles.
The highest velocity of the wind in one	hour				10
The highest velocity of the wind in one	nour	The Mary			lbs.
The highest pressure of wind on one squ	are foot			Not me	asurable.
The menter product or what on one of	1000				%
The mean relative humidity			E.S.		87
The average relative humidity of the co	rresponding				
Office	opponding	portou tot			87
			***		Inches.
my total fall of main from 97th July to	and Answet	1900			
The total fall of rain from 27th July to			- Office	***	1.65
The average fall of the corresponding pe			в Ошее		3.85
The total fall from 1st January to 2nd A					31.17
The average fall of the corresponding pe				•••	35.75

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard Newman's No. 86, formerly

at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV. and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; p, passing temporary showers.

N.B. - In the weekly report from 6th to 12th July 1890 read 82.2 for 82.8 as the mean temperature of the 7th July 1890.

In the weekly report from 13th to 19th July 1900 read 9.6 for 9.9 as the range of the 18th, and also read 80.6 for 83.6 as mean we bulb of the 16th July 1890.

J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 4th August 1890.

Meteorological Report of the Province of Benga

SION									STATIC	ON OBS	ERVATION	is.				
DIVISION			ATR	PRESSUI	EE.	Win	no.				TEMPERAT	URE.				
IRTROROLOGICAL	DISTRICT.	Representative station.	Mean barometric height, 8 A.M.	Wean reduced to sea-level.	'arration from mean.	Prevailing direction.	Mesn wind re- locity.	lighest during week.	Date.	Lowest during week,	Pate.	Wean maximum temperature.	Mean minimum temperature of week.	Mean daily tem- perature of weak.	Variation from normal mean of week,	Mean, 8 4.M.,
	5	Pooree Gopaipore	29:632	29°650 29°654	+ '058	8wiy.	394	90°7 85°2	29th July 26th & 27th	75.6 77.8	30th July 30th & 31st	84°5 83°9	78·1 78·8	82 3 81 4		80% 80°0
4	Pooree [False Point	29:617	29.639	+ '031	w*	301'7	88'5	27th July	751	29th & 30th	85'8	76'2	80 8	-8.0	80%
OHESEA	Outtack	Cuttack	29'566	29.647	+*044	sw	96.1	90'4	27th .,	75'8	29th July	86:9	77 2	82'1	-1.8	80%
0	Balasore	Balasore	29:561	29 620	- 010	sw	171'6	86'4	26th & 27th	75.7	29th & 30th	861	77.1	81.6	-0.6	79 9
!	South-West Midnapore	Saugor Island	29'593	29 619	+*632	sw	507'4	88'2	July 31st ,,	78'5	31st July &	86 0	80 0	83.0	-0.2	81.8
	South 24-Pergunnalis) Midnapore	Midnepore	29.462	29.613	+ '013	8	149'8	89.3	26th ,.	76.1	1st Aug. 28th July	87:6	77-2	82'4	-1.0	80.2
BENGAL.	24-Pergunnaha} Howrah}	Calentta	29:592	29:614	+ '032	Southerly	56.0	87 5	31st "	75.2	2 th ,,	85.0	76 6	81.3	-1.8	70'8
	Burdwan	Burdwan	29:4921	29.502+	+*014†	South-	96.6	88'6	26th, 27th,	76.9	29th	87 2	77 6	82.4	-20	797
10	Bankoora	Bankoora	29:287	29'587	+ 012	westerly Calm	66.0	88'1	31st July 27th	75.6	28th & 29th	86'5	76.6	81.6	-1.6	790
#	Beerbhoom?	Raneegunge	29-294	29.629	+*052	Variable	56.9	88'0	& lst Aug.	75'4	July	88'1	76.7	81'4		
South West	West Burawan)		29.236	29:603				4						All	-2.4	79'0
00	Moorshedabad	Krishnaghur	29.920	29.607	+ 020	Variable	127'0	88'6	27th	75:3	26th, 29th, & 30 July	86.8	76'0	81:3	-2'2	7912
	Jessore}		20'584	29 618		Variable	125'1	88:3*	26th	75.8*	26th & 29th July			81.5*	71.7*	81 4
Sale of	Khoolus 3	Jessore			+.019	1	9	89.2	26th	76:0	28th ,,	87.4	78'3	82.9	-1'2	80 6
1	Chittagong	Chittagong	29.604	29.695	+ '036	8	143.4	87.6	31st "	72.5	27th & 28th July	87.2	73.3	80.3	-0.4	77'9
	Chittagong Hill Tracts	Demagiri	onicia	211-628	+ '028	100	400.0		vations not re				The second			
AAE	Backergunge	Barrisal	29'616	29.682	+ '043	South-	139 0	85:3	26th July	75'4	28th .,-	83.7	76.9	80.3	-1.0	80:8
EAST PRESEL	Noakholly	Noakholly	29,758	29.636	+ 031	SE	187'1	84'0	26th ,,	75'8	28th to 30th July	82'8	75'9	79'4	-1.7	79.3
St		Furreedpore Daces	29 609	29'632	+ '022	SW & C	133.3	86.5	26th & 31st	76 4	31-1 ,,	85:0	77.6	81.3	-1.2	797
EA	Commillah	Commillah	29'605	29.641	+ 014	Southerly	149.3	85.9	July July	73.8	29th ,,	85:0	75 8	80.3	-3'4	79%
	Mymensingh	Mymensingh.	29.573	29.631	+ '013	South-	132'2	85.7	1st Aug. 31st July	75.6	28th & 29th	83'2	76'4	79.7	-1.6	79 1
	Bogra	Bogra	29.532	29.595	+'021	easterly Caim	90'4	88'3	27th ,,	76'1	July 28th & Soth	86'0	767	81'4	-32	781
	Pubna	Serajgunge	29.570	29.617	+ '016	South-	90.4	861	28th ,,	75.2	July 27th	84'5	76'4	80.2	-2.2	79:1
DAE.	Rajshahye	Rampore Beau-	29 532	29'602	+:031	westerly South-	1571	87.3	27th	761	27th	85'7	77.1	81'4	-2.1	781
RENGAL	Maldah	leah. Maldah	29.512	19'594	-	westerly Variable	76'8	88.0	26th	76.7	Sist	86.3	77:4	81.9	1910	801
15.50	Dinagepore	Dinagepore	29 480	29.000	010	E	54'1	87.6	27th	78.1	10797 7019	85'4	78'6	82.0	-2.1	79%
NUBTH	Rungpore	Rungpore	19.203	29*628	+*014	Variable	88'9	88:3	1st Aug.	75:7	& 1st Aug. 29, 30 July	85.6	76'4	81.0	-3.3	791
	Julpigoree	Julpigorae	20:336	29.625	+ '013	C 9	121'4)	87:4	30th & Sist	74'1	& 1st Aug.	85'2	75-1	80'2	-2.7	100
	Darjeeling Hill Tracts	Darjeeling	22.837	HER	030	ENE		66 1	July 27th "	551	2006-201	63.6	200			781
.1	Purneab	Purnesh	26.405	29.589	+.008	Calm	78'3	87.7		75:9	lst Aug.	84'9	56.2	29.9	-28	20.0
NORTH BEHAR.	North Bhagulpore	Mozufferpore	29'883	29*564			62.9			77.22.5	111171111111	Maria All	76.6	80.7	-3.7	80%
BE	Durbhungs	Durbhunga	29:417	29'534	+:002	ESE	142.0	87°3	1st Aug.	75'2	July	83.6	76'8	8012	-	7972
ORT	Chumparun	Motihari	29'360	29.288	+ 019	ESE	129.7	85'2	31st July &	76'0	& 30 July	817	76.6	80.7	-3.8	79%
Z	sarun	Chupra	29.354	20'648	-'016	Variable	185.5	87'3	181 Aug.	76'6	30th	83.3	76'3	80.7	-4.0	43500
		Dehree	29.231	29.587	+ '021	Calm	17:34	86 3	1st Aug.	75.5	D7 5 91	83.3	78'4	80.9	-31	789
4	Shahabad	Buxar	29'334	29 577	+'014	WsW Calm	160%	80'4	1st 1st	74°8 75°6	25th	81 9	76'8 76'4 76'7	80°1 79°2 80°1	-23	784
BREIR	Gya	Gya	59-211	29'592	+ 012	В	1161	87:9	ecth July	75'8	27th to	85"0	76'8	80.5	-4.8	11/1/25
	Patna	Bankipore	29,386	29 571	- 008	WAE	1201	85 9	36th	75.7	29th July 27th & 29th	83 0	77'1	80.0	-3.0	
SOUTH	South Bhagulpere	Bhaguipore	59'411	211-574	+ '013	Calm	43.6	87:7	1st Aug.	76'5	July 27th & 40th	84'8	77:1	81.0	1040	1
	Sonthal Pergunnals	Doomks	29.696	29.595	+*027	Culm	23.3	87.3	26th & 29th	75.0	July	Service.	TOUR		-3.0	100
TA UR.	Hazaribagh	The state of the	27:609	29 621	+'018	South-	202.5	83'9	July July	70.2	28th	84 2	75'9	80.1	-2.2	10000
CHUTT	Lohardugga	Ranchas	27:485	29 609	+:015	westerly SW			- amb			80-0	71'5	75.8	-2.2	1 300
62	Manbhoom						145'7	82'0	a 1st Aug.	69:4	28th A 29th July	8013	70-6	75.2	-2.3	789
	Singbheon	Chyebassa	28'841	29.608	+1027	WsW	59.8*	87'4	.7th July	73.7	20th	85'5	75.4	80.2	-1.9	77/4
T.	Assam	Dhubri	29:351	29'687	+ '028	southerly	53'7	89'6	7th #	75.5	36th & 31st July	85'8	76'4	81.1	-3.4	77.9
ASSAN	Assath	Silabor	29.500	29.620	+'016	Culm	168:3	84.2	July,	76-3	& 1st Aug.	88.0	78'6	79.8	-3'6	77'9
BEN DE		Shedar	25 0/3	23 070	+'025	Caim	40.8	89"5	31st	74'8	tist July	86:3	75.9	81'1	-28	75'5

* Mean of 6 days. ! † Mean of 4 days.

The humidity of the atmosphere is expressed at percentage, actuated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number stations in the district sending in returns divided by the number of stations. A rainy say is one on which at least hundredth of an inch full.

for the week ending Friday, the 1st of August 1890.

346

			800	7072	DESIDER	HE CHARLES	DISTR	ICT OB	SERVATIO	NS.				
	amount week.	k at	0-	State (12)				RATI	NFALL.		in head			
	ud am or we	f week		WRRK.	Sir	nce 1st of Jul	ly.	Sine	ee 15th May	1890.	ays.	umber ays.	Representative	DISTRICT.
at 8 A.M.	Average cloud at 8 A.M. for	Rainfall of observings	Wean for district,	Normal mean.	Mean for district.	Normal mean,	Variation.	Wean for district,	Normal mean,	Variation,	Average number of rainy days.	Normal number of rainy days.		
88	8.8	1:19		2.45		12'49			22:62			41	Pooree Gopalpore	
86	8.7	2:38		1000	Section 1			See A					False Point	Pooree
81	9.0	9.99	2.49	2'56	15:27	12.61	+2.66	27'49	23.98	+3151	4.2	4:5	Cuttack	Cuttack
87	51	0.18	0 60	3:36	7.67	13.67	-6:10	25.19	24.65	+0.24	1'8	4'6	Balasore	Balasore
	9.4	0.74	2.23	8.96	8.02	15'94	-7:89	24'94	27:97	-3.03	3.3	5'4	Saugor Island	South Wast Serve
87		1						29:27	25.09	+4*18	4'3	5'4		- Pergunnalis
85	4.0	0.99	3'24	3.86	8'82	13.65	-4'88	20 21	23 03	7 . 18			Midnapore	Midnapore
91	9.3	8.11	2.29	3.88	9:16	13 10	-3*94	. 28'45	25 64	+2.81	4'5	5.3	Calcutta	{ 24-Pergunnahe Howrah Hooghly
0.00	9.4	2.64	4.01	3.47	14'51	11:04	+3'47	37.63	22'56	15.07	6.3	5.0	Burdwap	Burdwan
87	8.1	6.80	3:97	4'34	14:21	14'08	+0.13	32'89	26 19	+6'70	6.0	5'2	Bankoora	Bankoora
89	B					13.78	+2.36	35'14	25 85	+9.29	6.3	5.0	200	6 Beachhaon
90	9.4	2.42	3.18	4'33	16:14		1.00						Raneegunge	West Burdwan
94	10.0	11.449	7.00	3.16	18.07	11'59	+6'48	32'36	23'86	+8'50	615	4.8	Berhampore	Moorshedabad
87*	9.1	3.75	3'45	3.00	11.01	10.70	+1.51	27'9:	53.57	+8.98	8.9		Krishnaghur	Nudden
92	9.6	2.82	3.81	8:46	11'87	11.85	+0.05	31.19	27:54	+3.65	5.0	5.2	Jessore	{ Jessore
92	7.7	20198	18'72	9 41	48'31	31,18	+16'12	78.11	67:11	+11.00	6.5	5.9	Chittagong	Chittagong
1	35/65			6'24		17:98			41:64	1		5'8	Demagiri	Chittagons Hill Trac
93	8:1	3.82	5.77	4.91	20'13	18.75	+1'38	42.49	41.87	+0.62	6:5	5.6	Barrisal	Backergunge
91	5.7	8:28	7.116	6.80	26.11	24*23	+1.88	58.91	56.80	-2:39	6'5	6.0	Noakholly	Noakholly
93	8.7	3.87	3.86	4.01	11'25	12'46	-1.21	23*87	29.36	-5'49	5.0	2.3	Furreedpore	Furreedpore
93	9.7	4.20	3.21	4*22	15.09	14.65	+0'44	36.82	81 93	+4.92	6.2	5.4	Dacca	Daces
90	8.6	5.00	5 76	4.37	17:10	14'48	+2.62	87.99	85 17	+5.83	2.3	5.3	Commillah	Tippone
95	84	6.70	6:35	3.89	17:78	13.68	+3'90	44.86	36.23	+8:63	6.5	5.0	Mymensingh	Mymensingh
93	10.0	6.40	6.03	3.24	14.78	13'02	+1.76	35'50	20.25	+4*98	6'8 -	4.5	Bogra	Bogra
95	9.6	5'68	4.03	3.72	11.10	11.01	+0.09	27.76	25:98	+1.78	6.0	4.4	Serajgunge	. Pubna
91	41	7.20	6.20	8.02	20*19	11.08	+8'21	42.87	26.20	+16.58	6.0	4'5	Rampore Beauler	
93	7:0	5'20	5.94	3.10	12.74	12'46	+0*28	26:43	27.11	-0.98	6:5	4.8	Maldab	. Maldah
92	9.8	5 43	5'98	2 79	18.01	12:26	+5.78	38'04	29.95	+8.00	6.0	4.5	Dinagopore	
93	50	6.52	7.11	8.03	15.76	14'24	+ 1 52	48'01	43.17	+4'84	6.8	4.6	Rungpore	
96	3.6	5'05	8.50	4.07	32'40	21'26	+11'14	80.01	61.10	+18*97	6.8	5.7	Julpigoree	Julpigoree " "
99	8.9	55.00	17.88	6.08	61.44	33 19	+28-25	98*27	68 25	+30.03	7.0	5.8	Darjeeling	Darjeeling Hill True
93	9:9	5'84	10 to	3'33	TOTAL S	14 21	- E		28.74		1	3.7	Purnesh	Darmanh
	7/2	A STATE				11 91	+8'51	30'56	20.72	+9'84	6.7	3.5		and an incident
94	8'4	8:27	6-95	2.86	20.42	11 91	+11.03	82.00		+13.71	6.0	8.5	Mozuff-spore Durbhunga	Mozufferpore
92	9.7	9.78	7.48	2.80	22.94	12:09	+11'30	39.76	21.29	+17'63	6.0	3.2	Motihari	Durbhunga
90	7.1	10:41	8'17	3.20	23.39	12:64	+5.27	30:11	50.10	+9'92	7:0	3'5	Chupra	Chumparun
94 91	9.1	2.72	8.69	0 00	17:91				A PER CENT		7.0		Dahree	
95 98	9.6	3.46	2.88	3.23	16:85	11.93	+4.92	27.77	17.79	+9.98	6.6	4.2	Buxor Arroh	C. Dischart and to
86	9.1	4'37	3'47	4.51	17'94	12.71	+5'22	32'04	19-74	+12:30	6.3	4.0	Gya	Gya
92	9.7	7:48	8.52	8'84	16'65	12 57	+2.98	25.84	20°25	+5.09	6.2	4'2	Bunkteure	Patna
78	9.7	8 79	175 000	3'88	18.48	12:16	+6'82	33.50	20'86	+12.43	6.4	4.3		South Bhagulpare
90	93	4'85	7'87			-510000		清明即					Bhaguipere	Monghyr
	A ALL		5.17	8.77	16.92	13:29	+3:68	14.90	24'81	+10.00	6.7	2.0	Doomka	Southal Pergunnahe
94	70.0	2.74	4.00	3'98	17 96	14.55	+374	30'30	23.85	+6145	6.5	5.3	Hazaribagh .	Hazaribagh
88	9.0	2.92 {	4'95 2'48	4'08 8'86	16'00	13°75 12°98	+5.52	24.00 52.51	22.28	+1.89	6·0 7:0	2.0	} Ranch:	Charthoom
88	10.0	2:40	2.24	4:25	9:58	15'14	-5:56	21.21	26:03	-4.32	6.0	5'4	Chyebassa .	. Singbhoom
98	10.0	4.72	7.5=0.70	VEV	6-245		1			British			Sibsagar	
94	9.7	\$.58	155-1173		1617		No Kari	No.			The state of		Dhubri	Assau
93	9'7	5 68	Chill !	SOLE OF	BY.	1900	100			any sale	4		Silchur	

be years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

onoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the ourmal means if years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 1st of August 1890.

					Ra	INFALL				To	TAL				
Meteorological division.	District.	Station.	Saturday, 26th July.	Sunday, 27th July.	Monday, 28th July.	Tuesday, 29th July.	Wednesday, 30th July.	Thursday, 31st July.	Friday, 1st August.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of July.	Average total rain- full from 1st of July.	Total rain- failsince 18th May 1890.	rainfal from 15: May to date.
ORIENA	Pooree	Pooree Khurdah Banpur False Point Gor Satpara Pipli	0.08	0°04 0°17 0°23	0.03 0.03 0.03	0:11 1:23 0:26 1:27 '0:16	0°69 0°64 0°42 0°43 0°60	0°44 0°20 0°13	0.50	6 5 6	1.55 2.73 2.38	15°02 23°14 12 56	11'01 13'14 11'16 14'66 ?	26°15 30°19 25°27	90:47 24:75 10:18 26:08
	Cuttack	Jagatsingpore Banki Cuttack Kendrapara Jajore Dharmsala Salipore	0°07	0°13 0°50 0°32	0'80 1'17 0'74 0'30 0'53	0°54 1°76 0°23 0°89 1°16 0°05	10°10 0°26 0°25 0°31 0°14	0°22 0°17 0°40 	1'40 1'47 0'10	5 5 5 5 8 8	8°06 1°73 8°58 3°07 1°03 1°56	16'46 14'70 21'15 12'72 11'33 11'47	11:53 11:50 13:64 12:55 13:78	26°64 29°25 86°61 21°05 26°87 20°47	20-10 22-10 27-30 23-30 26-19
	Balasore	Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah	0.16	0.04		0.04	0'42		0°10 0°10 2°40	3 1 Nil 2 1	0°28 0°09 Nil 0°20 0°10 2°91	10°60 7°24 6°20 5°76 5°89 9°89	12.70 12.53 12.82 14.55 15.93 13.37	23°15 25°67 25°28 25°95 23°85 27°23	23°0/ 24°52 22 71 26°08 25°61 25°61
SOUTH-WEST BENGAL.	Midnapore	Contai Saugor Island Tumlook Midnapore Ghattai Kukrahaty Garbetta	0°80 0°64	1°30 0°06	0°05 8°00 6°21 2°96 1°13 0°12	0.06	0 50 0 17 0 60	0°26 0°09 0°30 0°14	0.55 0.60 0.55	2 3 4 4 5 5 5	0'48 0'74 5'10 0'74 3'89 1'63 8'83	3:98 8:67 10:40 6:13 11:57 6:39 15:22	15°59 16°87 12°08 13°44 14°83	24'04 21'05 32 10 28'14 28'43 18'50 30'51	27°1(29°3) 24°3(24°1(26°7)
	24-Pergunnalis	Diamond Bar- bour Canning Town Alipore Jail Barrackpore Dum-Dum Baraset	0.04	173 0'91 0'23	0°92 0°83 0°71 2°35 0°86 1°88 1°20	0°14 0°15 0°08 0°15	0'74	2:35 0:30 0:42 0:04 0:04 0:13 0:30	1.22 0.33 0.14 0.28 0.50	5 5 5 5 4 4 2	6°35 2°26 2°26 2°69 1°41 2°61 1°50	11'48 10'74 11'69 8'74 7'16 7'89 11'31	15°36 9 14 17 12 87 1: 28 11 46 12 97	26'67 29'19 29'81 25'06 25'06 25'01 81'71	27-3; 7 26-9; 25-6; 24-0; 23-8; 27-8;
	Howrah	Howrab Moheareka		0.41 1.05	0.20 1.02	0'04	0.01	0.01		4	1°10 3°02	8.61 6.20	15 26 14 39	25°06 36°92	25°41 26°03
	Horghly	(Ooloberiah) Serampore Hooghly Jehanabad	0.03	0°26 0°45 0'38	2'54 0'48 1'14	0°13 0°30 1°04	0'11	0°04 0°36 0°58	0.38	6 5 6	3°10 1°95 6°27	9°08 6°76 13°91	13'54 12'80 13'80	25.92 26.22 35.00	25-6 24-6
	Burdwan	Cuina Burdwan Cutwa Raneegunge Mankur	0°37 0°19 1°37 0°45 0°04	2:75 0:44 0:33 0:96	0.70 0.28 0.19 0.04 0.33	0°47 1°85 0°50 0°15	1°16 0 10 0°75 1°21 0 17	0°10 0°28 0°41 0°10 0°35	0°19 0°01 0°14 0°58	5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2'80 5'64 3'67 2'12 2 77	11.88 19.71 11.93 13.61 11.67	11:07 11:61 10:44 14:34	32'00 43'50 36'78 33'98 32'70	25°40 21°7- 22°7- 25°11 21°14
	Bankee's	Bankoora Bishenpore Maliara Khatra Indas Kotalpore Anda Gangajalghati Raipore Sonzmukh	0°02 0°04 0°44	0°89 1°58 0°38 0°85 2°50 5°05 1°30 0°50 1°55	1'74 0'72 0'34 0'38 0'38 0'32 2'08 1'20 0'65 6'45 0'79	0°13 0°42 0°19 0°32 1°38 2°88 0°45 0°31 1°85 0°33	0.65 1.32 0.11 0.95 0.33 0.24 0.40 1.56 0.52 0.19	3'40 0'23 0'85 0'22 0'08	0 09 0 05	5 5 7 6 8 5 4 5 0	6.81 4.30 1.98 2.77 4.63 10.94 3.35 3.45 4.98 1.85	29°79 10°85 14°96 10°29 21°87 23°34 16°35 15°93 15°27 16°08	14'32 12'07 14'19 15'83 9 9	37'47 32'87 38'40 22'76 4'86 46'75 32'16 42'12 31'94 82'79	24'9: 25'11' 25'2: 29'3: ?
	Reerbhoom	Bh. Soory Hetampore Rampore Haut Bolpore Murarai	0.61 0.12 	0.80 1.12 1.50 0.55	0'40 1'65 0'34 1'95	1°33 1°14 0°70 0°25 0°42	0.42 0.63 0.20 1.50 0.35	0'94 0'64 0'25 0'31 1'05	0.15 0.08 0.48 0.08	6	3:71 3:03 3:57 4:66 4:52	21'04 14'02 15'87 14'90 19'69	18:69 15:33 11:80 1	38'49 32'67 35'33 34'25 31'78	26°27 28°36 23 86
	Nuddea	Ranaghat Kishnaghur Chocadanga Meherpore Kooshtea	0°85 0°44 0°26	0°82 0°30 0°20 0°63 0°67	0°17 0°12 0°64 1°=0 1°19	0°57 2°66 0°52 2°55 1°46	0.03 0.04	0°32 0°32 0°05	0°02 0°27 0°48 0°30 0°50	6 6 5	2°67 3°82 2°17 4°80 3°80	11'89 13'54 9'24 13'75 11'50	10°93 10°49 10°46 10°25 11°36	20°34 32°82 92°95 27°87 26°56	23°46 22°01 24°25 23°24 20°75
	Khoolna	Satkhira Bagirhat Knooina Nakipur Rampal	0.03 0.00 0.03	0.22 2.30 9.35	6°20 8°65 0°83 0°98 1°12	0.02 6 21 0.06	0°80 0°50 0°43	0°16 0°03 0°21	0°14 0°35 0°38 0°04	5 5 3	1'92 7'70 1'82 1'77 3'57	10.67 15.88 12.79 10.11 15.44	12:99 , 18:55 12:01 ? ?	31'99 42'24 32'76 36'40 36'49	29-20 83 00 27-73 2
	Језноте	Narsii Jessore Jhenidah Magoorah Bongong	0.00	1'00 0'34 0'19 0'47	1'49 0'41 0'55 0'62 0'45	0°24 1 04 8°02 0°93 0°35	0°32 0°30 0°20	0°04 0°25 0°05 0°15	0.08 0.52 0.13 0.29 0.35	7 7	2.80 2.35 9.54 2.82 1.50	7-95 9-02 20-41 8-04 8-94	9°88 12°16 10°31 10°64 11°23	29°24 31°57 32°67 24°84 24°06	24 01 28 35 26 60 26 51 24 51
	Moorahedabad	Kandi Berhampore Lalbugh Azimgunge Jungipore Lalgola Jiagunge Akhrigunj Patkabari	3:90 4:02 3:42 1:35 0:16 1:25 1:36 1:97 0:90	2°60 3°90 1°84 1°20 0°67 2°10 0°96 1°32 0°20	0°80 1°25 2°10 0°70 0°15 0°19 0°23 0°30	1'87 1'07 0'15 0'30 0'15 0'45 0'07 0'71 0'10	0°55 0°15 0°31 0°17 1°48 0°10 0°16 0°52 0°70	0°16 0°57 0°55 0°55 0°12 0°95 0°24 0°10	0°10 0°40 0°34 0°85 0°60 0°39 0 06	7 7 6 7	9:08 11:44 8:71 3:82 5:85 5:00 8:37 4:91 2:10	19°32 20°00 25°41 14°98 12°25 17°54 13°18 18°54 18°54	12:47 11:07 10:61 11:09 11:02 12:36 P	33'44 32'20 35'90 35'91 25'23 34'41 80'00 34'37 27'90	24 68 23 44 22 14 25 30 23 65 25 30
Bast Bungal	Chittagous	Cox's Bazar Chittagong Kutubdia Satkanya	2:50 5:34 4:25 2:10	4·10 6·53 3·60 8·00	1'20 1'68 2 90 2'50	5.28 7.76 2.00	1.75 0.27 0.79	0.00	0.10		15°43 22°00 15°45	54°92 41°58 83°83	41:39 22:95 ?	86°52 69°64 40°75	81°24 52°07
	Unittegong Hill Tracts	Rangamati	1:55	1.05	2.80	0.26	al		0.42	5	6'41	21'41	19:72	40:08	49°14 40°07
	Backergunge	Patuakhally Perozepore Burrisal Bhola	0.76 0.16	0.43	4°20 1°55 1°80 1°68	0°45 0°07	0.97 2.85 0.60 - 2.10	0°27 0°22 0°30 0°16	0°77 1°40 0°30 0°22	7 7 5 7	8:02 6:40 2:73 5:94	22.75 19.97 18.57 19.23	22'48 16'93 16'52 19'08	48°08 43°52 43°04 37°33	40°80 36°80 37°19 44°14

statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 1st of August 1890 -contd.

					B	AINPAL	L.	and the		To	TAI.				Average
orological livision.	District.	Station,	Saturday, 26th July.	Sunday, 27th July.	Monday, 28th July.	Tuesday, 29th	Wednesday, 30th July.	Thursday, 31st July.	Friday, 1st Angust,	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of July.	Average total rain- fall from 1st of July.	Total rainfull since 15th May 1890.	rainfall from 15t May to date.
BENGAL.		Gournaddi Bauphal	0.75 1.23	0.20 0.41	0°15 1°58	0.80	1.72	0.38 0.38	0.36	5 7	2·28 6·23	11:39 21:57	9 Y	24°27 41°09	ļ
	Noakholly	Nonkholls . Family Harishpore Rameanj	0°52 2°28 1°50 0°50	0°51 1°70 2°50 0°26	2.63 2.65 4.10 0.62	1.53 0.48 3.24	2°47 0°30 1°00	0.42	0.55 0.40	7 6	8*16 7*76	25·13 27·06	25·14 23·32 9	49°21 58°57	55°8 56'6
	Furreedpore	Madaripore Furrerdoors Goalunde	0.22 0.32	1.64	2.80 1.03 0.82	0.13 5.61	0°48 0°22 0°15	0°47 0°12 0°16	0.33	3 6 6	3.4.4 3.69 4.44	11:01 11:02 11:72	12.31 12.38 13.31	23.56 23.56 24.52	30°B 29°9° 27°87
	Dacea	Mun-higinge Daces Naraingunge Manickgunge Joydebpore	0°11 0°83 0°16 0°52	0°22 0°77 0°54 0°10 1°95	0°45 0°18 0°65 1°70 0°22	1'00 1'08 1'27 0'32 0'82	0°26 0°30 1°84 0°27 0°21	0°04 0°05 0°38 0°12	0°17 0°37 0°10 0°16 0°08	7 7 7 7	2:85 4:78 3:09 3:86	16:09 18:34 11:98 14:28	16:49 14:17 15:30 12:38 P	35'61 41'13 88'29 37'81	36 61 31 84 33 65 26 66
**	Hill Tipperab Tipperah	Agartols Comilla Chandpore Brahmunberis Ramchandra	2:32 0:94 2:04	1.20 1.19 2.12	1.85 1.85 2.00 0.70	0°85 0°76 0°70 0°88	0°42 1°49 1°40	0°18 0°04 0°10	0°06 1°10 0°08	6 7 8 7	6:12 6:33 3:80 6:80	16'64 21'23 13'72 16'68	12°57 17°75 16°05 11°51	40°10 41°52 35°50 34°77	31 33 41 4: 36 09 31 83
		pore Nasirnagar Daudkandi Kasba Laksham	0°93 1°20 0°16 2°02	1'11 0'99 0'26 2'07 2'25	0°72 0°20 °3 9°15	2°11 1°75	3·25 0·45 -2 1·60	0.18	0°04 0°75 0°90	5	8:29 2:39 1:62 6:65	27.59 8:19 6:04 26'84	9	47-03 25-01 18-78 49-80	9 9 7 7 7
	Mymensingh	Kishoraguar Atia (Tangaili Mymensingh Jamslpore Netrekons Subornakhally	0.63 5.60 0.44	1'82 0'54 1'30 0'14	1°50 1°21 1°37 3°05 0°42	1°25 0°79 0°50 0°53 0°90	0'83 1'59 1'95 0'47	0:49 0:15 0:32 0:11 1:39	0°47 0°55 0°56 1°94 0°14 0°46	6 4 7 7 7 7	6°11 2°70 6°03 10°36 6°54	14'28 11'65 19'93 18'09 21'91	13'68 11'69 14'81 13'02 16'24	40*41 84*35 46*92 46*50 56*89	37°56 28 47 39°77 32°26 43°64
		Durgapore Sherepore Town Dewangan;	2°85 2°91	0'44 1'22 4'30	0°50 2°04 1°03	0.66 1.50	0.31 1.33 0.31	0.70	0.35 0.28 0.35	7 6 6	8*74 7*86	14.07 16.10	1	87.76 42.93 24.06	9 9
RTH NGAL.	Pubns	Pubns Serajgunge Sherepore	1.24	0.80 5.88	0.2 0.43 0.13	0°92 0°53	0.23	0.03 0.11	0°45 0°50 0°67	7 7	2.581 5.81	9°22 12°94	10.63 11.38	31·41 35·45	25.19 26.74 31.00
	Bogra	Nowkhilta Bogra Panenbibi .	8:30 3:33 0:59	1°10 0°30 1°20	0.20 0.20 0.20	0.08 0.80 0.14	0'42 0'42 0'62	0.81	0°95 1°22 2°40	7 7 6	7'45 6'40 5'45	15'99 15'04 12'53	11'54 14'04 12'97	34.03 32.88 39.96	28.27 38.70 29.06
	Rapsinhye	Besuiesh Nattore Naogaon Lalpore Manda	2.55 2.70 0.84 0.40 0.90	2.83 7.06	0°14 0°17 0°60 1°65 0°90	0.68 0.70	0°72 1°18 0°35 0°50	0°23 0°69 1°00 0°20	0°05 2 62 0°68 0°05 0°50	7 6 5 6	7'20 8'31 3'99 4'78 3'25	22°72 20°85 16°98 13°21 12°70	12:38 12:59 10:98 P	43°23 48°93 36°45 24°62 28°20	25°15 26°43 28°20 P
	Maldah	Maidah Chanchal Gajal Sibganj	0°03 0°25 1°40	1.74 1.10 1.00 0.21	0°08 0°11 0°25 0°05	0.70 3.00 1.50	0.38 1.19 1.36 0.38	0°70 0°02 0°59	1:06 1:23 1:70 1:67	6 7 6 6	5°20 6°68 5°76 4°10	11.28 18.20 18.08	b 19.11 11.81	26°84 26°50 34°23 34°92	25.88 28.89 ?
	Diangepore	Mohadel-pore Chursmon Raigunge Dinsgepore Raicorghai Thakoorgaon	2'83 0'12 0'30	0°10 3°81 2°85 1°32 1°83 0°64	0.45 0.27 0.21 0.67 0.43 0.80	0.78 0.18 0.26 2.84 1.08	0°14 0°54 1°24 0°07 1°38	0.53	0.57 1.60 2.00 0.64 1.45 0.45	7 5 5 7 6 4	5'15 6'40 6'56 5'13 6'67 2'42	17:55 18:24 21:22 17:52 15:71 16:01	11.57 12.10 12.44 18.72 11.50 7	34'48 35'73 40'98 40'61 35'45 48'53	28 14 27 08 30 56 36 23 28 77
	Rungpore	Boawanigun, c. (Gyabanda) Rungpere Kurigrau Bagdogra (Nilphamari	1.85 1.14 1.11 0.85 1.52	1'99 2'58 1'81 0'59 1'85	4'60 2'43 1'15 0'12 2'53	0:37 1:04 0:05 0:95	0°20 6°12 0°40	0°30 0°02 0°10 0°18	2'82 0'45 1'05 1'16 2'46	7 7 7 6	11.63 7.78 5.17 8.85 8.36	18.69 14.18 13.97 16.15 11.74	12 47 16 75 13 91 13 84	47'04 42'25 48'57 54'15 40'71	34'89 43'23 45'81 48'89
	Julpigoree	Jipikorne Alipore Daga Fallacotta Debigani	0°46 1°12 3°22 0°18	1.74 2.49 3.15 0.09	1.47 2.30 2.17 0.96	0.15 0.81 2.48	6'91 0'40 0'25 0'60	0.02	0°06 0°36 0°36 0°28	7 7 5 7	4'81 8 25 9'15 4'64	41'52 89'00 41'35 16'80	26'88 9 9	85'69 97'06 87'25 56'44 98'88	62'94 9 9
	Cooch Behar	Bhagatpore (Nagrakatta). Dinhatta Coven Behar Mickilgunge. Manahnenga	6.71 1.93 6.69 1.21 1.66 1.17	1.65 5.26 8.87 1.55 1.87	2.19 1.69 1.34 0.22 1.13	3:11 1:18 0:36 0:48	1:39 1:56 0:20 0:15 0:13	0.71 0.41 0.39	0.89 2.41 2.54 1.02 1.71 0.65	7 7 7 6 7	16'65 14'44 9'40 4'18 8'16 15'24	67.73 19.73 32.13 26.77 41.83 61.20	18'91 22'87 20'45 22'18 45'75	63°28 84'75 76'82 89'82 111'59	53'61 68'59 57'88 69'98 107'65
	Darjeelin Hill.	Silliguri Darjeenne Kalimporg Kurseong	8'80 4'63 4:38 4'41	4°19 5°28 3°66 1°74 2°60	1'54 2 85 4'01 2'04 4'70	5'44' 1'54 2'86 1'00 1'83	1'42 2'10 2'98 1'20 1'18	0°81 0°20 1°81 0°90 1°40	1'00 2'74 0'47 0'40	77777	21.77 22.60 11.82 16.52	70°64 61°37 52°53 71°81	28°24 29°53 26°27	109°52 96°14 75°79 119°38	61'40 57'44 46'48 Y
n Bewar	Purneab	Kissengunge Arraresh Purnesh Gondwara Balarampore	0°26 0°29 0°04 4°47	0.77 0.36 1.44 2.60	2.61 2°18 0'15 0'82	0°22 2°18 0°70	0.12 0.69 0.38	0.0% 0.50 0.00	0°48 1°41 8°15	7 7 6	4·51 5·64 8·19	22'00 21'00 26'29	17.14 16.23 14.34 P	48'36 44'07 41'34 29'78	36'57 32'40 28'85 P P
	North Bhagul- pore.	Matiari Kaliagani Maddapore Scoppol Protabganj	1'40 1'80 6'90 0'28 0'21	0°42 2°60 2°55 4'82 0°91	0.00 1.43 3.41 0.42	0°14 0°20 1°04 1°81 0°53	1.83 1.66 1.17	0°30 0°25 0°54	0'35 0'25 0'35 0'12 0'81	6 7 5 7 5	3'51 8'45 6'50 11'65 2'38	15°15 97°37 23°85 26°43 10°45	11'91 11'48 ?	58'54 40'26 36'22 27'92 31'47	21.58 55.02 55.02 5
	Durbhungs	Tajporé Durbnuces Madbuoani Rahera Koshera	2.08 0.87 1.50 0.70 2.05	1°75 1°30 3°51 2°13 0°85	0°05 1°26 :11 78 1°17 1°25	2:03 0:18 1:39 1:14 0:77	0°54 2°20 1°36 3°20 0°12	0.02 0.36 0.36 0.36	0°04	7 5 6 6 7	6'53 5'81 10'12 8'70 6'17	22°03 22°58 24°24 20°2 17°49	12.81 17.09 11.04 5	35°38 38°53 24°76 28°09	11.16 51.20 51.10
	Mozufferpore	Sitamarhi Mozuflerpore Ilaippore Pare Mahua Siuhar	1.67 11.65 1.11 3.69 2.00 1.10	1'53 1'77 1'18 2'30 2'32 2'32	0.78 0.87 0.10 0.35 1.12 0.30	0.94 1.24 12.95 1.50	1'80 0'42 (0'52 0'39 0'46 2'10	0°32 0°22 1°57 0°14	0°02 0°65 1°44	7 6 7 6 5 6	6'51 6'17 8'17 7'28 7'35 5'12 6'70	18*18 23*02 20*08 21*18 19*17 15*88 20*30	10:83 19:21 12:68 ?	28'34 33'02 30'32 31'45 30'83 28'68 52'80	20°32 21°17 20°61 1

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 1st of August 1890-concld.

					R	AINFAL			100	Ton	AL	1000			
Meteorological Division,	District.	Station.	Saturday, 26th July.	Sunday, 27th July.	Monday, 28th Jaiy.	Tuesday, 29th July.	Wednesday, 30th July.	Thursday, 31st July.	Friday, 1st August	Number of rainy days.	Rainfall of week.	Total rain- fall since 1st of July.	Average total rain- fall from 1st of July.	Total rainfall since 15th May 1890.	Average rainfall from 1st May to date.
NORTH BRHAR concluded.	Chumparun	Motihari Bettiah Bagaha Burhurwa	3 59 1 86 3 56 4 49	2.67 3.21 5.91 4.43	0.21 0.21 0.21 0.18	0°17 0°60 9°56 0°03	2·24 0·17 1·96 2·25	0.82 0.82 0.52 0.69	0.03	6 6 7 7	9°44 6°00 14°48 12°10	24'80 22'40 29'90 20'52	10:92 13:26	42*28 87*19 47*18 36*40	20 E
SOUTH BRHAR	Sarun Shahahad	Gopalgunge Sewan Chuprah Buxar Dehree Bhabocah Sasseran Arrah Mohantah	1.24 1.13 1.08 0.02 0.52 1.28	1'34 0'64 0'16 0'17 1'20 0'30 1'03 0'48 0'40	1'70 2'29 8'60 0'46 0'05 0'35 0'95 0'20 1'10	3'60 0'13 8'39 1'20 0'22 0'26 0'58 0'24	0°27 1°36 0°78 0°25 0°40 0°42 0°10 1°40	0'84 0'58 0'04 0'11 0'23 0'11 0'80 1'85	0°08 1°45 0°37 0°05 0°10 0°64 0°11 1°15 0°05	7777776667667	9°07 7°58 9°42 2°26 2°72 2°89 2°80 4°22 5°20	15:47 19:20 19:97 14:78 13:63 15:19 13:66 29:50 13:21	13:00 12:14 12:72 11:23 11:24 13:52 12:14 11:58	25°82 33°40 31°12 25°67 23°85 22°95 23°85 44°97 20°21	207 201 197 20% 161 193 179 157
	Gya	Aurungabad Gya Nowadah Jehanabad Arwol Uaudnagar Uaudnagar Rherrghati Rajauti PakriBarawan	1°44 0°08 1°01	1'30 1'38 0'09 0'41 3'20 1'00 1'20 2'80	0.65 1.28 1.63 0.57 0.50 6.40 0.80	0°16 0°52 0°19 0°30 2°50 0°70	0.05 0.06 0.19 0.03 1.00 0.35 0.33 0.33	0°18 0°35 0°69 0°51 4°10 0°90 0°50	0.78 0.87 0.78 0.50 1.00 1.00 0.40 0.40	5 6 7 7 5 6 5 4 5	2:29 4:37 4:60 2:63 10:80 5:01 3:65 2:93 4:15	14'01 22'45 18'42 16'98 12'89 10'59 13'77 14'40	12 67 13 43 12 17 12 58	24'08 33'51 36'12 84'49 16'94 17'58 26'81 33'88	10 7 21 m 10 11 18 18 18 18 18 18 18 18 18 18 18 18
	Patna	Patna ibuspare Hehav Barrh Bickram Hilsa	0°88 1°90 0°77 0°70 1°43 0°18	1'80 1'85 3'26 3'50 0'32	0°11 0°10 0°12 0°42 0°23	2°78 0°81 0°86 1°20 0°07 0°08	0°12 0°61 0°12 0°65 0°05 0°87	1'74 9'25 0'92 0'62 0'65	0.07 0.12 0.42 0.49 0.48	6 7 7 6 7 5	7:48 5:59 6:17 6:89 3:20 3:16	17:41 14:92 15:68 14:18 22:97 14:18	12:36 12:00 13:08 12:79 ?	26°68 24°40 27°99 22°13 36°87 30°85	20°8 19°7 21°0 19°0 9
	Monghyr	Begeoserai Momehyr Jamui Gogri Sheikpura Bhegalpore	0°32 0°81 2°24 1°25 0°61	8:27 5:60 2:16 6:55	0.28 0.49 0.07	1.29 0.60 0.35 1.27 0.40	1°20 0°70 2°72 2°35 2°60	0°07 0°18 0°46	1°40 1°85 0°13 2°25 3°10	6 7 7 6 5	8'06 10'06 7'85 14'13 8'61	15'48 20'49 21'66 30'55 14'74	11.55 12.88 13.32 9	27'00 87'59 41'27 45'60 29'93	10-26 21-31 21-81 7
	pore	Banks Kelging Bangaon	0.04	2°11 1°10 2°50 13°83	0:37 0:32 0:50	1'35 0'64 0'82	0.98	0.82 0.82	3'49 1'01 0'72	6 6 6 2	8'91 4'48 4'80 1107	21°87 13°40 21°65 25°29	12:05 11:05 ?	25 97 28 48 40 78	20.7
	Sonthal Pergunnalis,	Rajmehal Godda Pakour Nya Doomka Deognur Jamara Mohogama Nannat	0°82 0°24 0°40 1°20 0°25	0.91 2.50 1.18 1.18 1.22 0.2 1.85 0.42	0°08 0°39 0°15 0°06 0°23 0°35	0°36 0°75 0°31 0°76 0°27 1°11	0°25 0°25 0°39 0°32 3°72 0°23 1°26 0°61	0.40 0.20 0.10 0.40 0.21 1.22 0.86	3'48 1'50 0'98 1'69 1'00 0'22 2'15 0'91	6 6 7 7 7 7 5 6	0°22 5°23 3°59 4°85 7°68 3°46 6°50 3°36	13:55 18:68 14:38 19:80 18:50 16:63	18:32 11:72 12:54 14:03 14:09 13:90 ?	29.54 52.64 40.37 36.74 31.06 39.03	26 6 20 9 26 0 26 1 24 4 24 5
CHUTIA NAG-	Hazaribagh	Pachamba (Giridi). Hazaribagh Semtagurah Mahudi Hil s Jhoomra Hilis Barhi Chatra Karagdeha	0'57 0'60 0'85 3'80 0'24 0'37 0'75	0.43 0.76 0.70 0.10 1.99 0.56 0.33	0.02 0.47 0.54 0.70 0.40 9.60 0.36	0.40 0.60 0.10 0.60 0.30 2.20	2.78 0.10 6.28 0.40 0.15 0.50	0°02 0°10 0°20 0°04	0°20 0°05 2°60 0°04	7 5 6 7 6	4.67 2.74 2.47 5.80 6.28 4.27	20°14 13°94 20°50 20°31 17°86	12:95 13:83 13:39 13:55 17:43	36-16 29-92 22-66 3 4 29-92 25-46	22'40 22'40 21'47 22'00 28 W
	Lohardugga	Kamphar Lohardugga Kanchi Phlamow Silli Balumat Hosseinabad	1.00	0.70 2.04 0.01 0.80	0.45	0°27 1°22 0°48 1°20 1°40 1°60	0°75 0°77 0°50 2°00	0°53 0°45 2°85 0°66	0°17 0°60 0°22 1°20	7 7 5 3	3.26 8.06 4.20	17'21 12'07 11'09 14'82 11'40	13:36 14:76 13:13	23.54 25.18 21.80	25°54 25°44 20°22
	Singbhoqm	Chyebassa Chakraahar. pore.	5	0.07	0.20	0.30	0.75	0.22	0.16	6	2.24	9:58	15-14	21.71	26 03
	Manbhoom	Ghatsilla Baharagura Parulia Gobinapore	0.98 0.98	0°12 0°42 1 49	2°90 0°52 0°85 0°10	0°50	0.70 0.12 0.83 0.40	0°07 0°26 0°16	0.06	5 7 7	4·29 2·38	16.88 11.48	13'56	26.38	24'33
		kaghunath- pore. burrabhoom Jhalaa Chas	0.52 0.23	0°29 1°50	0.00 1.68 0.12	0.31 1.00 1.33 0.38	1.04 1.20 1.10 2.60	0°80 0°87 0°27	0.05	7 4 5 6 7	2:57 2:59 5:40 5:61 5:63	10.18 17.75 17.60 17.88 12.50	12'20 9 9	22°29 34°20 30°19 29°83 28°34	2176

CALCUTTA, the 5th August 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 1st OF AUGUST 1890.

The important features of the weather of the past week have been the very heavy continuous rain in the northern districts, moderate general rain in the south of the province with the exception of Orissa, and the very cool weather for the season which has prevailed in all districts. At the commencement of the week gradients were steep over the Bay with a strong monsoon blowing, and ships arriving in port reported fresh to strong breezes with heavy rain squalls. The current from the Bay was confined to the eastern districts, as for several days a steady westerly wind was blowing over the western half of the province.

The interaction of these two currents evidently caused the phenomenal rainfall which has been reported from Behar and North Bengal throughout the week, as amounts began to diminish when easterly winds recommenced and the Bay current was allowed to take its normal course up the Gangetic plain. Pressure has been generally above the normal, and changes have rarely exceeded a twentieth of an inch. At first there was a general small defect above a twentieth of an inch in Behar only, and then the ordinary wind circulation prevailed, except that directions were south or south-west in North Bengal and over the whole of South Behar, but the usual easterly winds continued at the western stations of North Behar. A brisk rise of pressure on the 27th over the western districts displaced the area of lowest pressure towards the east, and the inrush of westerly winds became general, very heavy rain being received in East and North Bengal and Behar. Pressure continued rising on the 28th, but a general slow fall on the 29th, increasing in amount towards the north-west, gave a more normal distribution, and easterly winds set in over North Bengal and North Behar; the rainfall at the same time, though still heavy, beginning to diminish in quantity, except in the west of North Behar. On the 30th pressure fell briskly in Orissa and slowly over the rest of the province, a very uniform distribution resulting over the western half of the province, but in the Bay and East Bengal gradients were still steeper than usual. Winds had an easterly tendency except in Chutia Nagpur and Orissa, where slow indraught was taking place towards the north-west corner of the Bay. Rainfall was very light except in the Darjeeling Hills and the west of North Bay. Rainfall was very light except in the Darjeeling Hills and the west of North Behar; but even there amounts were only moderate. From the 30th till the end of the week a steady increase of pressure continued, normal monsoon winds were blowing in all districts, and temperature, though generally below the normal, was rising; while rainfall had ceased in Lower Bengal and was light, though general, elsewhere.

Pressure—Has never differed much from the normal, and has been more frequently above than below. The weekly means are hence above the normal at all stations, the difference being largest in South-West and East Bengal and Assam, where it is from two to three-hundredths of an inch. In the other districts it is generally between one and two-hundredths

hundredths of an inch. In the other districts it is generally between one and two-hundredths of an inch. The only occasions of changes greater than a twentieth of an inch were on the 27th, when it rose about '07 inch in the western districts; on the 28th at a few stations in the east of the province; on the 30th in Orissa, where pressure fell '06 inch; and on the

31st, when there was a rise of '06 inch in Assam. Temperature-Fell steadily during the first three days, rose on the 29th, again fell on the 30th, and then rose till the end of the week. Changes have generally been moderate and fairly regular, and the distribution has been everywhere largely below the normal. The mean defect for the week in Behar is 3.6°, in Assam 3.3°, in North Bengal and Chutia Nagpur 2.4°, in East Bengal 1.8°, and in Orissa and South-West Bengal 1.6°.

Rainfall—As compared with the normal, has been very heavy in North Bengal and

Behar, moderately heavy in East Bengal and South Behar, about normal in South-West Bengal and Chutia Nagpur, and considerably below the normal in Orissa. The fall in North Bengal is exactly double the normal, and in North Behar nearly two and a half times the normal; while in East Bengal though the average fall is as heavy as in North Bengal, excess is only 1.5 inches. Rainfall in the south-west corner of the province, and especially in Orissa, has been rather scattered, but elsewhere rain has fallen at almost every station on every day of the week, as shown by the average number of rainy days being 6.5 in all districts except Orissa and South-West Bengal. In Orissa the heaviest fall was 3.6 inches at Cuttack; in South-West Bengal a few stations received from 5 to 8 inches, but generally falls were between 2 and 5 inches, the heaviest being Berhampore 11:4 and Jhenidah 9.5 inches. In Furreedpore and Dacca falls were under 5 inches, but elsewhere in East Bengal they were generally between 5 and 10 inches. Chittagong received 22 and Cox's Bazar 15:4 inches. In North Bengal falls were between 5 and 10 inches, except in Julpigoree, Cooch Behar, and the Darjeeling Hills. Siligoree and Darjeeling received about 22, Bhagatpore and Kurseong 165, Buxa 15, and Dinhatta 14 inches. The falls in North Behar were nearly always between 6 and 8 inches, Bagaha and Burhurwa, in the Chumparun district, receiving more than 12 inches. In Shahabad and Gya falls were generally under 5 inches and in the other districts of South Behar between 5 and 7 inches; while in Chutia Nagpur amounts were more irregular, ranging from 2 to 8 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 1st August 1890:—

			Темрі	RATU	RR.				100	R	AINPA	LL.			ACC 1	
METEOROLOGICAL DIVISIONS.	week.	week.	Avera	çes for	week.	sbove or week.		of wee	k.	Re	iny da	ув.	Since of J	e 1st	Since	
	Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week a below normal mean of w	Атегике.	Normal average.	Variation.	Average number in week.	Normal average num- ber in week.	Variation.	Average.	Normal атегаде.	Average.	Normal grerade,
Orises	99.7	751	85'7	77'5	81.6	-1'6	1.65	2.85	-1 23	8 5	41	-0.6	12.29	12.78	26.57	23.65
South-West Bengal	89'3	75'2	86.8	77'2	82 0	-1'6	3.77	3.67	+0.10	5'4	4'5	+0.0	12'43	12.64	30.76	25'51
East Bengal	87.6	72'5	84'5	75'9	80'2	-1'8	6:56	5.01	+1'55	6:4	51	+1'3	20.08	17.18	42.66	39.81
North Bengal	88 6	741	85*5	76'8	81.5	-9.4	6.21	3*26	+3'25	6'5	47	+1'8	19 31	14'38	46'45	37'41
North Bohar	88'2	74.9	84'3	76'9	80'6	-3'6	7'48	3.10	+4'32	6'6	4.0	+2.6	21.82	12.80	38.00	23.38
South Benar	87*9	74'3	83.7	76.7	80'2	-8'4	5 17	3'83	+1*84	615	4'2	+2.8	17'24	12 56	31'11	20.91
Chutta Nagpur	88.9*	69:4*	80.2*	71.1.	75:7*	-5.4.	4'02	4:01	+0.01	6.8	51	+1.8	15.16	13.94	26.58	23.61
Assam	89'6	74.3	85'0	76'3	80.7	-8.3	AT A SE	515		Harry Street		100		30773		

METEOROLOGICAL OFFICE, BENGAL;

The 5th August 1890.

C. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 27th July to 2nd August 1890.

* Chyebasse not included.

				A.M.			TEMP	ERATURE.			_ I	I YGROMETR	Y	dir.
Mont	a.	Date.		Pressure at 10 A.M. corrected and reduced to 32° Fuls.	Daily mean.	Maximum.	Range,	Minimum.	Dry bulb at 10	Wet bulb at 10	Vapour pressure at 10 a.m.	Dew point at 10 a. M.	Humidity at 10	Reinfall past 24 hours
		hept for		Inches.			•	0	•	•	Inches.	•	%	Inche
July "" "August	111111	27th 28th 29th 30th 31st 1st 2nd	1111111	29-610 -658 -609 -588 -604 -653 -692	81·3 81·4 81·3 83·1 82·9 83·2 83·9	85.9 86.9 86.3 88.8 88.2 89.0 90.0	9·2 11·1 10·1 11·5 10·6 11·7 12·2	76.7 75.8 76.8 77.8 77.6 77.8 77.8	81·6 83·1 83·1 83·4 83·6 85·1 86·9	79.5 80.5 79.5 79.5 79.7 80.5 81.5	981 1 008 961 956 962 981 1 004	78 7 79 5 78 0 77 9 78 1 78 7 79 3	91 89 85 83 83 81 78	0.5 0.5 0.0 0.2 0.1 0.0

0.7	The mean 10 A.M. pressure of the seven days				Inches, 29.631
	The mean temperature of the seven days				82.4
BUTA	The extreme variation of temperature	***			14.2
7	The maximum temperature		•••		90.0
	The mean 10 A.M. relative humidity of the sex	en days		100 m	84
The	The total fall of rain from 27th July to 2nd	August 1890	.ending		Inches. 1.58

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, INDIA;
The 4th August 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal municipalities of Bengal for the week ending with Saturday, the 19th July 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 19th July 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 19·1 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 1·4 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1887—vide the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of births per 1,000 of the population per annum	29.5	21'4	16:9	19.3	22.2	20'5	19:1

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

					V	VEEKS E	NDING-				N	EBKS E	NDING-	
Ð	Towns.			28th June 1890.	6th July 1890.	12th July 1890.	19th July 1890,	Towns.		28th June 1890.	5th July 1890.	12th July 1890.	19th July 1890.	
Rurdwan Midnapore Hughli and Serampore Utterpara Howrah Bali Kishnagar Ranaghat Santipore Jessore Rumpore B Darjiling Dacca	Chinsur 	nh		111111111111111111	19°8 20°1 18°1 27°5 9°4 13°2 14°0 26°5 6°0 17°5 34°2	16'8 17'0 26'3 25'5 37'7 21'2 10'5 18'0 12'3 6'1 34'2 14'8 11'0	13.7 23.2 18.1 13.7 17.2 28.1 17.0 18.0 10.5 6.1 18.4 37.0 9.7	30°5 29°4 32°8 31°4 25°3 3°5 15°1 12°0 19°3 18°4 23°6 22°2 15°0	Narainganj Chittasong Comillah Patna Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Wonghyr Purneah Poori	2 1 1 1 2	2:4 1:1 8:5 1:4 1:9 0:8 5:8 8:0 1:7 24:4 3:5 4:7	4°1 42°3 34°7 10°1 14°3 14°3 13°4 13°4 7°0 29°9 14°5 17°3 23°1	20:7 28:2 3:8 11:4 29:4 23:9 18:2 22:8 12:1 19:0 38:9 3:5 14:7	16° 4° 7° 11° 26° 17° 15° 18° 20° 25° 33° 6° 10°

It will be seen that last week the highest birth-rate was returned from Monghyr (33.4), and the lowest from Bali (3.5).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22 per 1,000 of the population. The rate of the week is 6.4 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—vide the figures below:—

	1885,	1886.	1887.	1888.	1889.	Weekly average of five years 1885—80,	1890,
Ratio of deaths per 1,000 of the population per aunum	89.7	24'8	27'2	20°1	30.1	28'4	22.0

The deaths registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

	WE	RES ENDING	-		No.	WEEKS 1	ENDING-	-
Towns.	3	5th July 1896.	19th July 1890.	Towns.	28th June 1890,	5th July 1890.	12th July 1890.	19th July 1896.
Burdwan Midnapore Hughli and Chinsurah Serampore Utterpara Howrah Rali Kishnagar Ranaghat Santipore Cessore Lampore Beauleah Darjiling	26'3 2 27'9 2 20'4 2 8'6 10'5 2 1 7'0 1 12'2 1 15'8 5	6'8 22'9 1'7 25'2 3'0 21'3 9'4 29'4 9'4 15'9 8'6 11'5 4'6 3'5 3'2 3'8 6'0 18'9 4'0 8'8 8'4 30'6 5'8 10'5 1'9 22'2	19'8 35'6 19'7 45'1 56'6 16'0 7'0 8'8 24'0 17'5 48'8 5'2 37'0 23'4	Narainganj	20°7 23°5 34°7 14°3 27°3 45°5 36°5 36°5 26°0 19°1 16°3 19°9 27°7 245°5	8'8 87'6 46'9 15'3 26'0 51'1 31'6 17'3 8'0 15'4 9'0 10'4 86'0	24'8 39'9 26'9 14'9 32'1 35'9 31'6 21'1 15'4 25'3 65'0	16 % 18 % 26 % 14 % 6 % 25 % 25 % 25 % 26 % 16 % 1 10 % 0 26 % 2 10 % 4 4 % 1

It will be seen that last week the highest mortality occurred in the town of Utterpara (56.6), and the lowest in Kishnagar (3:8).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:

Cho	lera.		Fever.	Bowel-com	plaints.	Other ca	uses.	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio p	
Serampore Arrah Mozufferpore Midnapore Chupra Durbhanga Patna City	11·8 10·7 9·7 6·2 4·0 3·1 2·3	Jessore	42.8	Midnapore	108	Serampore Poori Midnapore Gya	19 (5 18 5 17 6 15 7	9

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2.5 from cholera, against 3.7 per 1,000 in the preceding week; '4 from small-pox, against '5; 8 6 from fever, against the same ratio; 3.1 from bowel-complaints, against 2.1; 8 from injury, against '5; and 6.6 from other causes, against 6 in the preceding week. ing week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.		According t	o Class.	According to A	ge.
	Ratio per mille.		Ratio pe	r	Ratio per
Males Females Ratio of male deaths to every 100 female deaths, calculated on the pro-		Hindus Mahomedans	23·5 18·9	Under 1 year 1 and under 5 years 5 , 10 ,, 10 ,, 15 ,, 15 ,, 20 ,,	159·8 34·1 16·9 12·4 14·8
portion such mortality bears to the total male and female population				20 " 30 " 30 " 40 " 40 " 50 " 50 " 60 " 60 years and upwards	11.8 14.5 15.8 22.8 46.7

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 4th August 1890.

Sanitary Commissioner for Bengal.

100			180	10	e alci		CT .		Finals						RVR						Name of the last	1 20 1								7/5/5	
							T				411/				M	IORTA	LITY	ACC	ORDI	NG TO)-	0.								10/2	
						Cla	88.															Ag	b.								
DISTRICTS.	NAMES OF MUNICIPALI- TIES.		DEAT	HS AMO	ong-		RATI	O PER	1,000 O	F POPT	ULA-					DEAT	нs.					No.		RATIO PI	BR 1,000	or Popu	LATION	PER AND	NUM.		
	2180	Ohristians,	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	tand under 5 years.	s and under 10.	10 and under 15 years.	15 and under 20 years.	30 and under 30 years.	30 and under 40 years.	to and under 50 years.	50 and under 60 years.	60 years and up- wards.	Under year.	land under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	under	50 and under 60 years.	60 years and up-
Burdwan	Burdwan	1 45	11	2				24'9	10'1			2	9	2			1	3	1		2	157.6	46'1	44.6			6.6	955-6	11.8	-	70'8
Midnapore	Midnapore		20	3				40°1	21.6		140	4	2	2	1	1	1	3	2	2	5	279-9	44.8	27.7	17'1	16.2	71	281	27.9	50.4	1421
Hugh'i	Hughli and Chin-		10	2	4			20.8	16'9		1.,	2	1	1			3		2	2	1	129.5	23'4	18:0	***		. 251	***	24.9	40.0	25'1
	surah Serampore		23	- 1				45'3	55'4			3	6	2	2	2	1	2	2	2	1	219.7	172 9	41'4	46*8	47.6	9.7	20-9	30.8	54'3	37.4
Serampore {	Utterpara		6				***	58.6	in	14	***	1	1	1		1			***	1	1	323.0	123.2	111.6		118.2	***		***	141 3	200.0
,	Howrab		23	. 5	-	-	12.5	17.6	12.7			3	2	2	1		4	7	2	2	5	75.6	18.8	16.2	7.9		975	18'9	8.8	18-9	69.3
Howrab {	Bali	100	2	1				7'8	1			1	1	1					S.,	***	***		521	48'8	•••	***			***	***	
	Kishnagar			2		-		-	12.8		***	1	1						***			104'8	21.1		***				***	***	No.
Nuddea	Ranaghat	-	3	1			1	21.3	381		***	1			-		1	1	440	1		251-2	***				34'5	417		71'8	***
	Santipore	1	4	6		-15	-	10.0	349			3	1	2			***	1	1		2	184'6	17.9	27'5	***	***		12.0	14.8	***	23.0
Jessore	Jessore		2	5			1	231	68:0	10	-		1	1	1	,	3				- 1	***	105'8	65.6	78-2		77.2	***	***	***	113.2
Rajshahya	Rampore Beaules)	1000	2		-			10.5	1			1				1				1		128-1	***		, sar "		***			41 9	***
Darjiling	Darjiling		6	-		-		56'6				1	1	1				1	1	***		429'8	80'9	88'9			***	26.3	75.1	***	***
	Daces		18	18		1		23'2	23.8			8	6	-	2	2	5	7	4	1	6	82.5	42.3		13'1	14.8	17.0	31-2	24'8	11.0	56'0
Dacca}	Naminanai		2	2				16.4	16-9			2	1	-					1		1	372.8						***	37.3		79'8
Chittagong	Chittagong		9	6				17'9	20'4			1	1		1	1	1		1		3	92'4	26'4		20.5		11.5		23.0	•**	156.0
Tipperah	Comillah		3	4			-	26.5	28.1			3					44.	1	2		1	525'3						26'1	79-1	***	76.7
Patna	Patna City		87	s				16.8	10.5			14	7	3	2	2	6	4	1	4	2	168'9	24.9	9.3	7-2	9.3	10.8	8.9	5.8	14.7	7.5
Gyв	Gya		41	6	P.V.	15.		35'5	19'4			12	5	8		2	2	1	9	8	10	348'6	40*9	22-3		19.9	71	41	47'9	23'7	101.0
Obstabal	Arrah		17	8		1		28.2	12.6			1	3	. 5	2	2	2	2		2	1	40'4	35'2	56.7	23'5	32'4	13.2	16.2	***	33 6	18.0
Mozufferpore	Mozufferpore	1000	21	8	TR.E			36'4	12.5		1	8	4		3	2	3	5	2	2	***	163'4	51'5		39-4	34'3	18.2	37:3	20.8	32.0	
Durbhanga	Duchhaum		So	11	***			32 2	33.6			5	7	5	5	1	4	2	3	3	6	167.0	47'8	33-2	46'8	12.9	15.6	9.3	21.0	35.6	97.7
	01		10	6	***	***		13-1	26.2			1	3	1	2	4		2		1	2	36.9	30*2	8.7	20.7	59'9		13:4	***	12.6	30.6
Sarun	Dhambura	***	7				200	9.5	12.1		Service of		1	1	1	1	1	1		1	2	87.1	9.6	8.9	8:3	12.4	4'8	5.6		12.2	28.9
		N.	21		***			24'4	33.1	***		8	2	9	1	2	7	2	1	8	2	280'1	16-7	14.7	1	27 5	35.2	11.7	8.2	39-2	59.0
	Monghyr	***			***			11.3	9.8								1	1	2	-	101						15'8		56'1	***	
	Purneah		2					44.2	100			,	3	,		1	2	4	1	3	5	171.6	86*8	23-2		28'0	19.7	51.3	15.6	69:9	144.0
Poori	Poori	***	21	***	41	-		1000						-						-	-				30:1	-	11'8	14'5	15.8	22.8	46.7
	TOTAL	-	342	107	,		***	23.2	18.9	*** 5		78	61	36	23	23	48	49	38	34	59	159'8	84'1	16.9	12.4	14'8	41.5				

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 971 MILES.

Statement showing Quantities of Goods carried during the month of June 1890.

			TOTAL GOVERNMENT	r and Private.		Parv	ATR.	
Number of boats or	DESCRIPTION.		Quantity-Tons.		Value,	Quantity.	Value,	BES.
rafts.		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	REMARKS.
		1 001	184	2,015	86,817	9.015	00 017	
191	1. Grain	1,831	STORY THE REST OF THE PARTY OF	2,010	50,517	2,015	86,817	E 33
1	2. Cotton ···	******	V.****	******	00	*****	90	100
	3. Oilseeds	214	262	476	50,425	476	50,425	1300
37	4. Salt		. 14	14	19,300	14	19,300	
4	5. Piece-goods	*****			10,000		13,500	Mal
	6. Metal	2	89	91	464	20	282	1
18	7. Building materials	121	322	443	47,387	442	47,252	18
525 13	8. Miscellaneous 9. Fuel		44	44	385	44	385	
A. SARAHARAN CO. C. SARAHARAN CO. SARAHARAN CO. C. SARAHARAN CO. C. SARAHARAN CO. SARAHARA	10 Minshow	147 e. ft.	42 c. ft.	189 c. ft.	164	189 c. ft.	164	188
rafts	4.4 TO 1	100 ,,	000	400 ,,	39	100	39	
99	II. Bamboos	100 ,,	300 ,,	100 %		400 ,,	35	
2 3 3 3	Carlo Al Valley College	(2,168 &	915	3,083 &)	0.05.051	f 3,011 &	1	
789 &	12. Total	247 c. ft.	342 e. ft.	589 c. ft.	2,05,071	589 c.ft.	2,04,754	133
raits								
646 &	13. Total of same	1 1,477 e. ft.	797 &	2,274 & 1		1.249 &	{ 1,72,104	12
raft.	month last year.	NO CONTRACTOR OF THE PARTY OF T	125	125 c. ft.	1,73,141	125 c.ft	1,72,104	100
rait.	monta not year.	(120	120 6. 16. 1	his level with	1 120 0.10	13	Tab
rare.		Up.	Down.	Total.		10 130 0.10	1	
					Total tolle		Rs.	Α.
. Total	number of boats plying	Up.	Down.	Total.		ge of month	Rs.	
. Total	number of boats plying				24+25+	ge of month	Rs. 5,678	A. 13
. Total car	number of boats plying go No. number of boats ply-	Up.	Down.	Total, 789	24+25+3 Total toll	ge of month 26 age of sa	Rs. 5,678	13
. Total car	number of boats plying go No. number of boats ply- passenger No.	Up.	Down.	Total.	24+25+	ge of month 26 age of sa	Rs. 5,678	13
Total car ing Total	number of boats plying go No. number of boats ply- passenger No. registered tonnage,	Up. 390 70	Down. 399 52	Total, 789	24+25+3 Total toll	ge of month 26 age of sa	Rs. 5,678	13
. Total car ing . Total car	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons	Up.	Down.	Total, 789	24+25+: Total toll month las	ge of month 26 age of sat t year	Rs. 5,678 me 4,962	13
. Total car Total car Total	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage,	Up. 390 70 4,507	Down. 399 52 3,559	789 122 8,066	24+25+: Total toll month las	ge of month 26 age of sa	Rs. 5,678 me 4,962	13
. Total car Total car Total pas	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, seenger Tons	Up. 390 70 4,507 957	Down. 399 52 3,559 536	789 122 8,066 1.493	24+25+: Total toll month las	ge of month 26 age of sat t year	Rs. 5,678 me 4,962	13
Total car Total ing Total car Total pas	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, ssenger Tons nileage	Up. 390 70 4,507 957 174,884	399 52 3,559 536 149,330	789 122 8,066 1.493 324,214	24+25+: Total toll month las	ge of month 26 age of sat t year	Rs. 5,678 4,962 Tollage.	13
. Total car . Total ing . Total car . Total pas . Ton-n . Estim	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, ssenger Tons alleage ated value of cargo Rs.	Up. 390 70 4,507 957 174,884 1,02,767	Down. 399 52 3,559 536 149,330 1,02,101	789 122 8,066 1.493 324,214 2,04,868	24+25+: Total toll month las	ge of month 26 age of san t year	Rs. 5,678 4,962 Tollage.	13
Total car Total ing Total car Total pas Ton-m Estim	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, ssenger Tons nileage ated value of cargo Rs. per of passengers No.	Up. 390 70 4,507 957 174,884 1,02,767 4,266	Down. 399 52 3,559 536 149,330 1,02,101 2,422	789 122 8,066 1.493 324,214 2,04,868 6,688	24+25+: Total toll month las Me	ge of month 26 age of sax t year	Rs. 5,678 me 4,962 Tollage. Rs.	13 13
Total car Total ing Total car Total pas Ton-n Estim Numb Rafts,	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, ssenger Tons alleage ated value of cargo Rs. per of passengers No. bamboes C. ft.	957 174,884 1,02,767 4,266 100	Down. 399 52 3,559 536 149,330 1,02,101 2,422 300	789 122 8,066 1.493 324,214 2,04,868 6,688 400	24+25+: Total toll month las Me 1. Balance on the	ge of month 26 age of sax t year morandum of	Rs. 5,678 me 4,962 Tollage. Rs. 6,395	13 13 A. 10
Total car Total ing Total car Total pas Ton-n Estim Numb Rafts,	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, senger Tons alleage ated value of cargo Rs. per of passengers No. bamboes C. ft. bullahs ,,	957 174,884 1,02,767 4,266 100 147	52 3,559 536 149,330 1,02,101 2,422 300 42	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189	24+25+: Total toll month las Me	ge of month 26 age of sax t year morandum of	Rs. 5,678 me 4,962 Tollage. Rs.	13 13 A. 10
Total car Total ing Total car Total pas Ton-m Estim Numb Rafts, Do., Estim	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, senger Tons nileage ated value of cargo Rs. ber of passengers No. bamboos C. ft. bullahs ,, ated value of rafts Rs.	957 174,884 1,02,767 4,266 100 147 157	399 52 3,559 536 149,330 1,02,101 2,422 300 42 46	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189 203	24+25+: Total toll month las Me 1. Balance on the 2. Tollage	ge of month 26 age of sax t year morandum of not recover lst of the moper month	Rs. 5,678 me 4,962 Tollage. Rs. 6,395 5,678	13 13 10 13
Total car Total ing Total car Total pas Ton-m Estim Numb Rafts, Do., Estim Tollag	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, senger Tons nileage ated value of cargo Rs. ber of passengers No. bamboos C. ft. bullahs ,, ated value of rafts Rs.	957 174,884 1,02,767 4,266 100 147	52 3,559 536 149,330 1,02,101 2,422 300 42	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189	24+25+: Total toll month las Me 1. Balance on the	ge of month 26 age of sax t year morandum of	Rs. 5,678 me 4,962 Tollage. Rs. 6,395	13 13 10 13
Total car Total ing Total car Total pas Ton-m Estim Numb Rafts, Do., Estim Tollag	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, ssenger Tons ated value of cargo Rs. per of passengers No. bamboos O. ft. bullahs ated value of rafts Rs. ge on boats ounded tollage on	957 174,884 1,02,767 4,266 100 147 157 3,069-12-6	399 52 3,559 536 149,330 1,02,101 2,422 300 42 46 2,605-10-6	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189 203 5,675-7-0	24+25+: Total toll month las Me 1. Balance on the 2. Tollage 3.	ge of month 26 age of sa t year morandum of not recover lst of the mo per month Total	Rs. 5,678 me 4,962 Tollage. Rs. 6,395 5,678 12,074	13 13 A. 10 13
Total car Total ing Total car Total pas Ton-m Estim Numb Rafts, Do., Estim Tollag Compo box	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, senger Tons alleage ated value of cargo Rs. ber of passengers No. bamboos C. ft. bullahs ge on boats ge on boats tasks.	957 174,884 1,02,767 4,266 100 147 157 3,069-12-6	399 52 3,559 536 149,330 1,02,101 2,422 300 42 46	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189 203 5,675-7-0	1. Balance on the 2. Tollage 3.	ge of month 26 age of sa t year morandum of not recover lst of the mo per month Total paid in	Rs. 5,678 me 4,962 Tollage. Rs. 6,395 5,678 12,074	13 13 10 13
Total car Total ing Total car Total pas Ton-n Estim Numb Rafts, Do., Estim Tollag Compo	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, ssenger Tons nileage ated value of cargo Rs. her of passengers No. bamboos C. ft. bullahs ,, ated value of rafts Rs. ge on boats ounded tollage on ats Rs.	957 174,884 1,02,767 4,266 100 147 157 3,069-12-6	399 52 3,559 536 149,330 1,02,101 2,422 300 42 46 2,605-10-6	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189 203 5,675-7-0	1. Balance on the 2. Tollage 3.	ge of month 26 age of sa t year morandum of not recover list of the mo per month Total paid in	Rs. 5,678 me 4,962 Tollage. Rs. 6,395 5,678 12,074	13 13 10 13 7
Total car Total ing Total car Total pas Ton-m Estim Numb Rafts, Do., Estim Tollag Compo bos Tollag Total	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, ssenger Tons nileage ated value of cargo Rs. per of passengers No. bamboos O. ft. bullahs ,, ated value of rafts Rs. ge on boats ,, ounded tollage on ats Rs. ge on rafts ,,	957 174,884 1,02,767 4,266 100 147 157 3,069-12-6	399 52 3,559 536 149,330 1,02,101 2,422 300 42 46 2,605-10-6	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189 203 5,675-7-0 1-8-0 1-14-0	1. Balance on the 2. Tollage 3.	ge of month 26 age of sa t year morandum of not recover lst of the mo per month Total paid in	Rs. 5,678 me 4,962 Tollage. Rs. 6,395 5,678 12,074	13 13 A. 10 13 7
Total car Total ing Total oar Total pas Ton-m Estim Numb Rafts, Do., Estim Tollag Compo bos Tollag Total	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, senger Tons ated value of cargo Rs. per of passengers No. bamboos O. ft. bullahs ated value of rafts Rs. ge on boats ounded tollage on ats ge on rafts reliable Rs. tollage on boats per a-mile Rs.	957 174,884 1,02,767 4,266 100 147 157 3,069-12-6	399 52 3,559 536 149,330 1,02,101 2,422 300 42 46 2,605-10-6	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189 203 5,675-7-0	1. Balance on the 2. Tollage 3. 4. Amount treasur month	ge of month 26 age of sa t year morandum of not recover lst of the mo per month Total paid in y during	Rs. 5,678 me 4,962 Tollage. Rs. 6,395 6,395 12,074 nto the 7,201	13 13 A. 10 13 7
Total car Total ing Total car Total pas Ton-m Estim Numb Rafts, Do., Estim Tollag Compo box Tollag Total ton Total	number of boats plying go No. number of boats ply- passenger No. registered tonnage, go Tons registered tonnage, senger Tons ated value of cargo Rs. per of passengers No, bamboos O. ft. bullahs ated value of rafts Rs. ge on boats ounded tollage on ats ge on rafts ge on rafts tollage on boats per	957 174,884 1,02,767 4,266 100 147 157 3,069-12-6	399 52 3,559 536 149,330 1,02,101 2,422 300 42 46 2,605-10-6	789 122 8,066 1.493 324,214 2,04,868 6,688 400 189 203 5,675-7-0 1-8-0 1-14-0	1. Balance on the 2. Tollage 3. 4. Amount treasur month	ge of month 26 age of sa t year morandum of not recover list of the mo per month Total paid in y during	Rs. 5,678 me 4,962 Tollage. Rs. 6,395 6,395 12,074 nto the 7,201	13 13 13 10 13 7

Abstract for the month of June 1890 as compared with the corresponding month of the precious year.

	1890	-91.	1889-90.						
	During the month.	To end of the month.	During the month.	To end of the month,					
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.					
Tollage	5,678 13 0	17,496 0 0	4,962 13 0	15,361 14 9					

CALCUTTA,
The 5th August 1890.

G. A. G. Shawe, Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL. SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of June 1890.

1216			PRIVATE,					
Number of boats or rafts.	DESCRIPTION.		Quantity-Tons.	Value.	Quantity.	Value.		
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	REMARKS.
		0.404		0.474	11 00 100		0.00 400	100
211	1. Grain	3,464	9,	3,473	3,29,136	8,473	3,29,136	B
7	2. Cotton	48		48	24,300	48	24,200	10
118 3. Oilseeds		1,902	14	1,916	2,59,962	1,916	2,59,962	H
201	4. Salt	16	2,936	3,396 32	3,32,783	3,396	3,32,783	B
	5. Piece-goods					1		2
4	6. Metal				4,280	32	4,280	46
99	7. Building materials	3,907	40	3,947	63,074	3,947	63,074	4
1,559	8. Miscellaneous*	5,706	337	6,043	7,44,663	6,043	7,44,663	Æ
285	9. Fuel	6,571	329	6,900	52,224	6,900	52,224	
	10. Timber					******		
	11. Bamboos						*****	1
		Mark Contract						1
2,484	12. Total	22,074	3,681	25,755	18,10,422	25,755	18,10,422	I
,405 &	13. Total of same	28,884 &	6,385	35,269 &)	28,71,279	(35,269 &	2 00 71 070	
rafts.	month last year.	600 e. ft.		600 c. ft.	20,11,219	1 600 c.ft.	} 28,71,279	1
	V. E. S.	Up.	Down.	Total.				
14. Total number of boats plying eargo No. 14s. Empty			225	2,484			Rs.	
		2,259			Total tollag	ge of month-		
		1,236	300	1,536	24+25+26 17,			
. Total	number of boats plying							
passenger No. 16. Total registered tonnage,		472	0.769	473	Total tollage of same month last year 22			
					rast year	22,706		
car	rgo Tons	76,420	9,763	86,183			m v	1000
Total	registered tonnage,				Me	morandum of	Tollage.	
	ssenger Tons	871	4	875		3630050		0
. Ton-r		6,19,880	97,630	7,17,510			D.	
CALL THE IT		14,70,729		TANK THE SERVICE				è
19. Estimated value of cargo Rs.			3,39,693	18,10,422	1. Balance not recovered on the 1st of the			
. Num	ber of passengers No.	2,064	22	2,086	mont	891	1	
. Rafts	s, bamboos C. ft.	ft 2. Tollage per month		17,797				
2. Do.	, bullahs ",							
23. Estimated value of rafts Rs.								C STREET
. Tolla	ge on boats "	15,403-13-0	2,393-4-6	17,797-1-6	3. Total	18,689		
. Com	pounded tollage on							
	ats Rs.				4. Amount		to	
. Tolla	ge on rafts "				mont	nry during th	ne 17,777	
	tollage on boats per							
ton-mile Rs. 28. Total tollage on rafts per				C-0-4·76	5. Balance	due at the er	nd	T X
3. Total	tonago on rares per							

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS). CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.			TOTAL GOVERNMENT	PRIVATE.				
	DESCRIPTION.		Quantity-Tons,		Value.	Quantity.	Value.	
risite.		Up.	Down.	Total.	Rupees,	Tons.	Rupees.	REVARES.
51	(a) Jute	940		940	1,05,300	940	1,05,300	
56	(b) Jaggery	572		572	48,075	572	48,075	
6	(c) Sugar	41		41	8,050	41	8,050	
2	(d) Tobacco		12	12	2,800	12	2,800	
468	(e) Fish	73	1	74	20,623	74	20,623	
6	(f) Hides	3		3	590	3	590	
54	(g) Poultry	12		12	10,206	12	10,206	
83	(h) Hay and straw	535		535	11,538	535	11,588	
21	(<i>j</i>) Oil	. 5	231	238	33,075	236	83,075	
31	(k) Earthenware	. 62		62	861	62	861	
781	(m) Other miscella- neous	9 469	93	3,556	5,03,545	3,556	5,03,545	
1,559	Total Miscellaneous	5,706	387	6,043	7,44,663	6,043	7,44,663	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL. SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of June 1890.

Number of boats or rafts.			PRIVATE.						
	DESCRIPTION.		Quantity-Tons.	Value.	Quantity.	Vı	Value. Rupees. 3,28,402 7,380 54,850 89,862 20,423 2,60,883 14,493 300 65 7,76,658		
		Up. Down.		Total.	Rupees.	Tons.			Ru
735 2 29 69 468 710 124 1 raft. 7 rafts.	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous* 9. Fuel 10. Timber 11. Bamboos	3,874 - 15 378 452 5,389 2,695 1,793 393 c. ft.	108 16120 c. ft.	3,884 15 378 917 5,397 2,711 1,793 120 c. ft. 393 "	3,28,402 7,380 54,850 89,862 20,423 2,60,883 14,493 300 65	15 378 917			
2,137 & 8 rafts.	12. Total	{ 14,596 & 393 c. ft	499 & 120 c. ft.	15,095 & } 513 c. ft. }	7,76,658 {				
1,848 & 3 rafts.	13. Total of same month last year	{ 11,356 & 200 c.ft.	386 & 1,101 c. ft.	11,742 & } 1,301 c. ft. }	8,42,315 {	11,742 & }	8,4	2,315	
14. Total number of boats plying cargo No. 14a. Empty ,, 15. Total number of boats plying passenger No.		Up.	Down,	Total,				Rs. A	
		2,088	49	2,137	Total tolla 24+25+				
		600	70	670	Total tollage of same month				
		284	6	290	last year		5,764 5		
16. Total registered tonnage, cargo Tons		44,419	1,604	46,023	Memorandum of Tol.			lage.	
17. Total registered tonnage, passenger Tons				708				Rs.	
18. Ton-mileage		3,29,202	25,664	3,54,866	1. Balance not recovered				
19. Estimated value of cargo Rs.		7,28,166	48,127	7,76,293	on the 1st of the month			214	12
20. Number of passengers No.		1,768	78	1,846	2. Tollage per month			6,573	15
21. Rafts	s, bamboos C. ft.	393		393			100		
22. Do., bullahs ,,			120	120			-		
23. Estin	nated value of rafts Rs.	65	300	365	3. Total			6,788	11
24. Tolla	ge on boats ,,	6,171-2-3	399-5-6	6,570-7-9					
25. Comp	oounded tollage on		7						
bo	ats Rs.				4. Amount paid into treasury during the month		nto		
26. Tolla	ge on rafts .,,	2-9-6	0-14-0	3-7-6			the	6,502	6
	tollage on boats per n-mile Rs.		of	0-0-3-55			0,000	TO COUNTY	
28. Total	l tollage on rafts per 100 bie feet Rs.	, 	,	0-10-9		due at the ene month	nd -	286	5

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS). TOLLY'S NULLAH.

		To	TAL GOVERNMENT	AND PRIVATE.		Priv	ATE.	100
	DESCRIPTION.	CANADA SALAN SA	Quantity-Tons.		Value.	Quantity.	Value	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
(a) Jute			Park 1190	.000/0 mg	(A) (a)		
(8) Jaggery	533	3	536	45,075	536	45,075	
(c) Sugar	9		9	1,750	9	1,750	
(d) Tobacco	121	•••••	121	27,200	121	27,200	
(e) Fish	14		14	3,965	14	3,965	
U) Hides	1	20.503	1	50	1	50	
(9) Poultry	1		1	50	1	50	
(h) Hay and straw	341	a etata lea	341	7,465	841	7,465	
()) Oil	281	11	292	40,950	292	40,950	
(k	Earthenware	170		170	2,376	170	2,376	
(m)	Other miscellane- ous.	1,224	2	1,226	1,32,002	1,226	1,32,002	
To	tal Miscellaneous	2,695	16	2,711	2,60,883	2,711	2,60,883	

ABSTRACT FOR THE MONTH OF JUNE 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

F N S S S S S S S S S S S S S S S S S S	TRAFFIC	, 1890-01,	TRAPPIC, 1889-90.						
	During the month.	To end of the month.	During the month,	To end of the month.					
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.					
Salcutta and Eastern Canals	17,797 1 6	51,918 0 9	22,706 6 0	59,122 7 6					
Colly's Nullah	6,573 15 3	23,687 7 9	5,764 5 8	19,540 10 9					
Total	24,371 0 9	75,605 8 6	28,470 11 3	78,663 2 3					

CALCUTTA,
The 5th August 1890.

G. A. G. Shawe, Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 2nd August 1890, as compared with the corresponding week of the previous year.

A STANDARDS			WEEK ET	DING SATURI AUGUST 1890	AY, THE	WEEK ENDING SATURDAY, THE 3RD AUGUST 1889.			
NATURE	OF CARGO.		Number of boats,	Weight of cargo.	Tollage,	Number of boats.	Weight of cargo.	Tollage.	
			No.	Mds.	Rs.	No.	Mds.	Rs.	
Rice and paddy Jute Firewood Other articles	-	::	307 11 94 670	59,530 3,700 45,625 1,88,630	848 72 685 2,337	371 18 180 811	60,920 8,750 76,325 1,68,200	939 156 1,228 2,340	
	Total		1,082	2,97,485	3,942	1,380	3,14,195	4,663	

Eastern Bengal State Railway.

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of May 1890, as compared with the same month of the previous year.

And the second second				189	0.	1889.		Tota	AL.	A CONTRACTOR OF THE PARTY OF TH	1 2 137
St.	APLES.			Up.	Down.	Up.	Down.	1890,	1889.	Increase.	Decreas
	A. 中间 (4)	To All	100	Tons.	Tops						
loal				7,869	2,355	12,964	2,067	10,224	15,031		4,80
lotton, raw	*** *** **	*** ***	7	******	201	6	322	201	328		12
otton twist and yarn-	n-		5	AN HOUSE		ALL PROPERTY.	A PROPERTY.	230 Sept 201	SPERIORY	A SECTION AND LESS	A STATE OF
1European	***	***		39516	town and HA	AUGUST TO	ALLEGARY	ALC: STREET	ARMIN'S	A STREET	VS-1539
2 Indian	*** *** **			(22 EMB)		A STATE OF THE PARTY OF	7.4 W. C. P. C.	A CHARLES	[法院主张]	A SECTION AND A SECTION AND ASSESSMENT	18 869
lotton piece-goods-	A STATE OF THE PARTY OF THE PAR		4	4	4	STATE OF THE PARTY		A CHEST STORY	A STATE OF THE PARTY	A1960215207	PATRICE SA
I Icorporogram	s and bundle	A missing	4	2,556	68	2,925	160	2,622	8,085	Anthrope	46
a.—In bales b.—In boxes	and outlier	les		4,000	A CONTRACTOR OF THE PARTY	2,000		-	0,000		A SHARES
2-Indian-			1	40 2 2 3 3	A STATE OF THE STA	自然当年を記	225 X 15 to	Control of the last	AND DESCRIPTION OF THE PERSON	A CONTRACTOR OF THE PARTY	4 2 008
2-In baler	s and bundles	es		A SECTION OF THE	STORING VI	ACCEPTANCE.	\$1000 CO		ARRESIDATI	A STATISTICAL PROPERTY.	ARRAGAM
6.—In boxes	s and bundles)	AL SERVICE	CONTROL IV	ASSESSED AND ADDRESS OF	And the second	ALEX GREEN	AND RESIDENCE	ADERGOS	A COLOR
rains-	SESSEE	AND SERVICE	AND Y	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT SHEET WAY	AUSCHOUS	CONTRACTOR OF THE PARTY	A STATE OF THE PARTY.	ALL THE REAL PROPERTY.	A URALPHOTO	A 312 STATE
2.—Rice				2,551	4,584	1,885	6,680	7,135	8,565	www	1,43
5.—Others			""	1,215	9,595	1,032	10,844	10,810	11,876		1,06
ides and skins-		AND THE PARTY OF	AND V	ACCOUNT ASSET	ALL DESCRIPTION OF THE PERSON	25-21 10-1	ARD THE DESIGNATION OF THE PERSON OF THE PER	A STATE OF THE PARTY OF THE PAR	WEST STONY	ATTITUTE STATE	1000
1Hides of cattle	A-		40020	ALESI GARA	10000000000000000000000000000000000000	APPLICATION	Nathara es	BERTHER 2000	CONTRACTOR OF THE PARTY OF THE	410000000	351/300
aPressed	*** ***]	A SECTION ASSESSMENT	and the second	Allege and the state of the sta	2823 Tak 1000	Contract of the	A STATE OF THE PARTY	The same of the sa	Charles and
bUndresse	ied	***		COLUMN TO	309 1	4	543	309	MAY!	A	0
2,-Skins of sheep,	, &c	ALIES AND	AND Y		300	BANGSELVER.		800	547		23
a.—Dressed b.—Undresse	to			Contract of the sale	A STATE OF THE PARTY	全社公司	45000000	A STREET, STREET	AUTO CONTRACT	A STATE OF THE PARTY OF THE PAR	PROTEIN TO
ute-	sed	•••	,	ACCOUNT OF THE	American II	在開始行為湯	Marine Co.	AND STREET,	ASSESSED FOR	MANAGER ST	550500
1.—Raw—	A 6 (19) 1 1 1 1 1 1 1 1 1 1		All V	A STATE OF THE PARTY OF THE PAR	CONTROL OF THE	ALTERNATION OF	CONTROL OF	A PROPERTY OF	100000	THE STREET	200707
a.—Screwed	1				805		1,542	805	1,542		73
bUnscrewe	wed			4.5	5,441		2,188	5,415	2,388	3,057	******
2.—Gunny-bags an	ind cloth			160	1,499	390	1,197	1,659	1,587	72	******
etals—	Photograph of		All V	All the same of	40 20 ESSE	ATTENDED IN	ARTHUR STORY	CONTRACTOR OF THE PARTY OF THE	AND THE PARTY OF	A24000000	A STREET
1Copper, unwrot	nght ']	A STATE OF THE PARTY OF THE PAR	A CONTRACTOR OF THE PARTY	AMPHICA	A STATE OF THE PARTY OF THE PAR	Carlo Table	AMERICAN	A STATE OF THE STATE OF	A CONSTRUCTION
2Brass, unwroug	nght	*** ***		A REAL PROPERTY.	AND THE PERSON	ALLEY	A STATE OF THE PARTY OF THE PAR	A THE DESIGNATION OF THE PARTY	CONTRACT OF THE PARTY	THE PERSON NAMED IN	4322213
S.—Brass and copp	per, wrought	ıt	*** 1	801	66	980	201	867	1,182		31
4.—Iron			***	Contract V	GC 1985-2007	ALEX CONT.	A CONTRACTOR OF THE PARTY	A STATE OF THE PARTY OF THE PAR	AT 2000	A STATE OF S	THE CHIEF
5Tin				A STATE OF THE PARTY	A Charles of the Real	ALIE WAR	APPENDED V	San Parket	WENE HARE	AUENTONIO	BAC STATE
6Others			1	THE R. L.	ALCO PROPERTY.	APPROVE	100 miles	STATE OF THE PARTY	ALC: UNIT	A CONTRACTOR	30000
ils- 2Kerosine				548	8	540	61	556	601	ACCOUNT	No sunday
3.—Others				416	11	287	36	427	323	104	T1 / A11 / Sec. 105
il-seeds-	ACCURACY	Actions	177	Allegan	ATTEN METERS V	Market St.	ALC: WILLIAM	ASSESSED FOR	AND PARTY.	AUSUS BUSINESS	******
1 Linseed			1	All San	A PROCESSION	APRIS IN	ALC: WINDS	A CO. L. C.	CONSTRUCT	A POST COURT	CHECKEN.
2.— Rape and must	stard			CHARLES OF PARTY	Charles and the	A STATE OF THE PARTY OF THE PAR	ACTION STATE	Principle and	ANDRES	A DECEMBER OF	ASSESSED
3Til or gingelly	· · · · · · · · · · · · · · · · · · ·			A STATE OF THE PARTY OF THE PAR	A CONTRACTOR OF THE PARTY	All others	A STATE OF THE PARTY		A STATE OF THE PARTY OF THE PAR	A 5-3/2 STORY	A STATE OF THE PARTY OF
4Niger		*** ***		102	5,170	312	8,422	5,272	8,534		3,9
5 Castor		•••		ALL STREET	- TO S. V. (5 to)	SERVICE PAR	ARREST	A STATE OF THE PARTY OF THE PAR	STEEL ST	ATTENDED	100000
6 Poppy		*** ***	***	CURRENT	CHEST STATE	SECTION DE	A SHARE	A STATE OF THE PARTY	A PARTY PROPERTY.	A CONTRACTOR	Section 1
7Others		•••]	ALCOHOLD CONTRACT	AND THE PARTY	SHEET SERVICE	THE PERSON NAMED IN	A CONTRACTOR OF THE PARTY	Contract of the	A SECOND	A Charles
rovisions—	ATTENDED Y	ALSO VIEW	AND	52	846	147	130	898	977	201	1000
3Others			#	414	385	714	130	898 829	1 384	621	
ailway plant and roll	ling-stock		**	200		7,816	4,714	12,374	1,384 12,529		6
				5,623	32	7,622	9,719	5,655	7,644		1.0
near-	AZX MUHHAM	Actority	All I	ALCOHOLD !	A STATE OF THE PARTY OF THE PAR	ALL SALES	A 3.50 - 500 B		No. of Lot, Lot, Lot, Lot, Lot, Lot, Lot, Lot,		1,9
1,Drained			3	3 634	645	890	2 100	2 070	e 100	ATAMARAGA	A CONTRACTOR OF THE PARTY OF TH
2Undrained			3	5 000	010	530	8,100	1,279	3,630		2,8
00-			3180	A MERCHANIST	CONTRACTOR OF THE PARTY	A THE STATE OF	A STATE OF THE PARTY	A STATE OF THE PARTY OF THE PAR	STEP STATE	ACCUPATION OF	A PROPERTY.
1.—Foreign			3	}	671		892	671	892	TANKS OF THE	9
				5	ATTENDED		A CONTRACTOR OF THE PARTY OF TH	AND POST OF STREET	田原的		A CONTRACTOR
Vood-	ACCESSION OF		1	79	40	*0	200	200	and and	1000000000	A STREET
1.—Timber			***	1.627	49	1.540	299	121	378	******	9
2Firewood .				1,627	1 911	1,540	8 009	1,627	1,540	87	*****
obacco	acrohandise			SCHOOL STATE	1,911	94	8,283	1,932	3,377		1,4
1.—Unmanuluctur	ared		ASSIV	A CONTRACTOR OF THE PARTY	100 TO 10	Contract of	A 6 1 5 2 5 5 1 1 1 1	TESSION	A STATE OF THE PARTY OF THE PAR	A STATE OF THE PARTY OF THE PAR	A Committee
		Section 1		3,356	2,625	3,810	2,951	6,981	6,761	220	
Hay, straw, and woold	400 (C. & 87	R. Section	n) (425		721	100 100 250 031 051	425	721		1000
Alby,	A CONTRACTOR		ASS.		-	Control of the latest		A CONTRACTOR OF THE PARTY OF TH	No. of Street, Street, or other		A CHIEF TO
ACRES CANADA	ERRITED!	Total		28,476	38,274	44,197	50,525	79,124	94,723	4,161	19,
		ALCOHOL: NAME OF THE PARTY OF T	ALC: NO.	STATE OF THE PARTY OF	A CONTRACTOR OF THE PARTY OF TH	Control of the last of the las	W/Www	AND ADDRESS OF	Part and	135 Con 1977	A Contract

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of May 1890.

NOT THE RESIDENCE OF THE PARTY	INCREAS	sus.				
Jute, unscrewed Serajganj, Goalundo, and the Northern Section contribu	ted this	increase.			Water of	Tons. 3,057
Betel-nuts Principally in receipts from Bengal Central Flotilla stati There were also transactions between Northern Bengal	ons and State i	in upwards l Kailway stati	oooking fro	m Armenian m Narayang	Ghát.	621
D	ECREAS!	18.	MAELS IN	Section 1		
Coal Sufficiency of stock for railway and flotilla consumption.				-	-	4,807
Cotton piece-goods			•••			463
Rice	nd is sai	id to be due t	the dull	ess of the n	narket.	1,480
Jute, screwed		1-1	•••			737
Metals	***					315
Oil-seeds	ened pro					3,262
Salt			••	••		1,989
Sugar Due principally to the short receipts from Bengal Central for this class of sugar.	l Railw	ay short crop	s and no de	mand in Co	alcutta	2,351
Tobacco Due to decreased despatches from the Northern Section,			 unfavourab	le market.		1,445
And history (1944) In all your surveys to					F. P.	QUINLAN
CALCUTTA, the 29th July 1890.				Exa	miner o	f Account

Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nalhati State Railway during the month of June 1890, as compared with the same month of the previous year.

	Mar.		188	39.	189	ю.	Tot	al.		处据规
STAPLES.		U	p.	Down.	Up.	Down.	1889.	1890.	Increase.	Decrease
10 Notation 1947 - 1940	link.	1	ons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons,
Doal		=	498 5		588 12		498 5	588 12	90 7	
Cotton piece-goods 1,-European	***		45	1	32	*****	46	32		1
Grains—			1	3	95		24	95	71	
3Gram				11			11	*****		
4.—Others Hides and skins—	***	**	5	13	45	*****	18	45	27	******
1.—Hides of cattle— g.—Dressed				7		3	7	8		
Jute-	***		15 (FEGE	The Colonial Land		OF STANCE	The state of the state of the		******	
1.—Raw 2.—Gunny-bags and cloths	**		10	5	1	177	11	177	172	1
Lac-			1		1		1	1		
1.—Stick	**	3		*****			A LANCATOR		*****	******
1.—Beer	***	1.040 1796217	1		2			2	Allen 2	******
Metals-	**		SEL		Des States		EMPLICATION OF		· · · · · · · · · · · · · · · · · · ·	******
2.—Iron 4.—Others	***	7	8		25	4	8 14	25 13	17	
Oilu-		1					In Capacity Co.	THE WORLD		NO.
1.—Castor 2.—Kerosine	2		1 2		1 2	******	1 2	1 2		*****
8Others	***		7		10	,,,,,,	7	10	3	******
Oilseeds— 1.—Linseed	STREET,			254		47	254	47	2000	21
2.—Mustard and rape	•••	•••	105		47	******	105	47	******	103000
Provisions— 1.—Ghee					1			1	1	
2.—Dried fruits and nuts 3.—Others	***	-	23	20	1	65	43	66	23	A Second
Paner and pasteboard	***		4				41.0	******	20	
Rail way plant and rolling-stock		-	31 132	12	116	37	132	89 116	46	******
Silk, raw-		THE SALE	202	Taranta de la		STREET, STREET			*****	
2.—Indian Bill piece-goods—			****	16	3	17	16	20		
2.—Indian	***	STREET, STREET		2		1	2	1	*****	
Stone and lime	***		21		20	*****	21	20		101015
1.—Drained	***		49	· · · ·	62		49	62	18	
Tobacco		11 3 3	6		54 17	*****		17	54 11	*****
Timber All other articles of merchandise	***	***	122	*****	5 229		SCHOOL S	5	4	
All other articles of merchandise			123	18		27	140	250	116	
T	otal	***	1,114	368	1,431	378	1,480	1,809	661	32

			INCREAS	z.		AU SELECTION	100	Tons.
Coal	AND THE PARTY	*** /(0)		A CONTRACTOR				90
This increase is due to	greater impor	t for stora	ge.					
Grains-						Value of the		
(2) Rice	***	***	***	100	•••	BIRTHE SE	***	71
This is due to greater			stations.			No. 12 September 1	Valle Sales	
(4) Others			•••	***	***	***		27
Due to import of pade	ly for greater of	iemand.			OUT WORK HAR			
Jute-					W. C.			170
(1) Raw This is chiefly due to		for Volume	manand furta	her mall 4h	la wasu			172
	despatches of a	ar. Tutes p	ressed Juce	by ran th	is year.			
Metals—				ALSO				17
(2) Iron Chiefly due to despate	has of old rails	of East In	dian Railwe	w heanch	t hy nubli	o from Nal	hati to	11
Azimgani.	nes of old rails	OI James At		y brongn	o by pathi	c from Tage	IINGI CO	
Provisions-					THE THE WARREN		an Philosophia	
(3) Others	TO A STATE OF THE STATE OF							23
This is due to export	of fresh fruits.	chiefly ma	ngoes, from	Azimgan	station thi	s vear.	sattle pris	
Railway plant and	rolling-stock							46
Due to greater desput					A	TACAMA SAN		77
Sugar—				alketa -				No. of the last
(1) Drained	27 3						CO MINEROLISMA	18
Due to greater deman	d.	107 FE 10						
(2) Undrained							EUDY . CONT	54
Due to greater deman	d.							
			DECREASE.					
Cotton piece-goods-								A Charles
(1) European	***		***			***	***	14
Chiefly in despatches i	from Calcutta l	y steamer.	OF PUREN		196 10 A 10 A			Salara Salar
Grains—								The state of the s
(3) Gram	-00	***	***	-	***	•••	•••	11
This traffic is carried b	y steamer this	year,		1001	and the state of	STATE OF THE PARTY OF	The state of the	
Jute-								
(2) Gunny-bags at	ad cloths	***	- ***	- 011	***		***	10
Due to the dull traffic	in grains.	TENER				100 S 100 S		Ma Set Set a
Oil-seeds—								
(1) Linseed	43. M. 1			***	***	***	***	207
The falling off is due t	o this traffic be	ing carried	1 by steamer					
(2) Mustard and r			A			***	***	58
Due to less import owi	ng to the dull		Azimganj n		0			1 40
Salt	***			2 444	***	***	1700	16
Carried by boat.						D 4	7. 3.	
STATE OF THE PROPERTY.	and the second is				Name of Street or other	It.	G. Mook	ERJEE,
AND DESCRIPTION OF THE PROPERTY OF THE PERSON OF THE PERSO					THE RESERVE AND ADDRESS OF THE PARTY OF THE	CARL THE TANK AND AND ADDRESS OF THE PARTY O	STATE OF THE PARTY	

Manager, Nalhati State Railway.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 1,5251 miles open.

	COACHIN	G TRAPPIC.		S AND MINERAL PPIC.	Other earnings		1:1777FE72kHill/A	TRAIN-MILI	RS RUN.
	Number of passengers,	Receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mps. s.	Ks. A. P.	Rs. A. P.	Ra. A. P.	Service Services	J. 1	
Total traffic for the week Or per mile of railway	247,947	2,37,928 0 0 155 15 6	17,46,683 10	3,86,823 8 0 253 9 2	15,227 8 0 11 15 2	6,42,979 0 0 421 7 10	65,316}	74,958)	140,274
year	641,420	6,31,828 13 0	53,83,677 10	11,75,945 13 0	51,124 10 0	18,58,899 4 0	177,9661	220,9264	398,893
Total for 4 weeks	889,367	8,69,756 13 0	71,29,710 20	15,62,769 5 0	69,352 2 0	25,01,878 14 0	243,2821	295,8854	589,167
COMPARISON.				21					
Total for corresponding week of previous year Per mile of railway correspond-	223,950	2,32,062 3 3	23,41,713 0	4.73,392 15 8	19,758 15 8	7,25,214 2 2	64,322	85,628	149,945
ing week of previous year Total to corresponding date of		152 2 0	J	810 5 1	12 15 3	475 6 4	*****		
previous year	1,012,856	9,74,881 4 11	91,65,240 36	19,32,268 5 0	69,797 2 3	29,76,446 12 2	258,099	361,417	619,516

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

	27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27Th JULY 1889.			PRIL 1890 TO 26 JULY 1890.	Total	Total	
Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.		Mean mileage worked.		Per mile worked per week.	increase in 1890.	decrease is
1,525}	Rs. 7,25,214	Rs. 475	1,525}	Rs. 6,42,979	Rs. 421	1,525}	Rs. 1,50,03,197	Rs.	1,525}	Rs.	Rs. 526	Rs.	Ra. 13,62,268

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 57% miles open.

	COACHING	TRAPPIC.	MERCHANDISE TRAF		Other earnings		TRAPPIC '	TRAIN-MILE	B RUN.
•	Number of passencers.	Receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mps. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
otal traffic for the week r per mile of railway or previous 3 weeks of half-	10,974 192	5,507 11 0 96 4 7	39,642 20 693 10	2,539 10 0 44 6 5	45 8 0 0 12 9	8,092 13 0 141 7 9	1,029	567	1,596
year weeks of half-	28,239	13,824 8 0	1,13,453 30	6,857 14 0	107 8 0	20,789 14 0	2,713	1.759	4,472
Total for 4 weeks	39,413	19,332 3 0	1,53,096 10	9,397 8 0	153 0 0	28,882 11 0	3,742	2,326	6,068
COMPARISON.		A Section 19			17 S. F. S. E. S.	E STATE OF THE STATE OF			
otal for corresponding week of previous year	14,664	6,979 6 7	49,453 20	3,024 9 0	49 14 6	10,053 14 1	954	642	1,596
ing week of previous year tal to corresponding date of	2561	123 0 3	864 30	52 14 0	0 14 0	175 12 0	20000		
previous year	44,888	22,579 8 7	2,16,202 30	11,005 4 0	162 0 3	33,746 12 10	8,622	2,761	6,383

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, duted 23rd July 1883.

BCRIP	TO POR WEEK 7TH JULY 188	ENDING		TS FOR WEEK STH JULY 188			L RECEIPTS FRO PEIL 1889 TO 27 JULY 1889.			BECRIPTE PROPERTY SELL 1890 TO 26 JULY 1890.		Total	Total
fean ileage orked.	Receipts.	Per mile worked,	Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week,	Mean mileage worked.		Per mile worked per week,	increase in 1890.	decrease in 1890.
571	Rs. 10,054	Ra, 176	57)	Rs. 8,093	Rs.	571	Rs. 1,47,743	Rs. 152	571	Rs. 1,56,496	Rs. 161	Rs. 8,753	Rs

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 221 miles open.

	COACHING	TRAFFIC.	MERCHANDISE TRAF	AND MINERAL PIC.	Other earnings	Total	TRAFFIC	TRAIN-MIL	ES RUN.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	earnings.	Conching.	Merchan- dise.	Total.
		Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
otal traffic for the week or per mile of railway	17,257	4,253 S 0 191 2 6	4,162 30	151 3 0 6 12 8	8 0 0 0 5 9	4,412 6 0 198 4 11	919	49	968
for previous 3 weeks of half-	54,829	13,310 0 0	12,294 80	437 12 0	21 2 0	13,768 14 0	2,458	160	2,618
Total for 4 weeks Comparison.	72,086	17,563 8 0	16,457 20	588 15 0	29 2 0	18,181 4 0	8,877	209	3,586
otal for corresponding week of previous year	15,722}	8,798 12 8	8,115 20	114 14 0	-0 8 0	3,913 2 8	989	29	208
ing week of previous year stal to corresponding date of previous year	80,170	170 11 9 18,840 0 0	21,644 0	5 2 7 702 12 0	-0 0 4 8 15 6	175 14 0 19,551 11 6	3,684	144	3,828

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPT 127	FOR WEEK TH JULY 18	ENDING 89.	RECEIP	TS FOR WEEK	ENDING		RECEIPTS FRO PRIL 1889 TO 2 JULY 1889.			RECEIPTS PROPRIE 1890 TO 26 JULY 1890.		Total	Total
Mean mileage worked.	Receipts.		Mean mileage worked.	Receipts.		Mean mileare worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease in 1890.
	Rs.	Rs.		Rs.	Ra.		Rs.	Rs.		Ra.	Rs.	Rs.	Es.
221	3,913	178	221	6,412	198	201	1,02,189	270	221	1,03,509	274	1,320	

EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Keturn of Traffic for week ended 19th July 1890, on 767 miles open.

	COACHING	TRAFFI	ic.	MERCHAN		PPIC.	BRAI	Other	earn		Tota	al	TRAFFIC	TRAIN-MILI	KS RUN.
	Number of passengers.	Coachi		Weight		Receip	ots.	inc	ludin m-box	lg	earmi	ngs.	Coaching.	Merchan- dise.	Total,
		Rs.	A. P	Mos.	8.	Rs.	A. P	R	8. A	. P.	Rs.	A. P.			07.7
Total traffic for the week Or per mile of railway	-127,575 168	59,970 78				1,08,170 141	0 0		00 0 *1 0		1,83,040 220		22,890	28,211	51,101
For previous 2 weeks of half-	\$10,850	1,18,680	0 0	7,01,840	0	1,36,630	0 0	22,0	30 0	0	2,77,840	0 0	\$8,965	52,130	91,095
Total for 3 weeks	438,410	1,78,650	0 0	12,16,520	. 0	2,44,800	0 0	87,4	30 0	0	4,60,880	0 0	61,855	80,341	142,196
COMPARISON.								1	No.					100	
Total for corresponding week of previous year	124,666	55,780	0 0	4,06,570	0	79,223	0 0	U SIDA	73000	96	1,52,544	Target a	23,024	24,233	47,257
Per mile of railway correspond- ing period of previous year	167	75	0 0	544	0	106	0 0		*1 0	0	183	0 0	*****		******
Total to corresponding date of previous year	439,676	1,76,796	0 6	12,42,875	0	2,16,003	0 0	40,7	97 0	0	4,33,596	0 0	66,592	67,945	134,537

^{*} Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIP	rs FOR WEEK 20TH JULY 18	ENDING 89.		S FOR WEEK OTH JULY 1896			JULY 1889.			RECEIPTS FROM PRIL 1890 TO 19 JULY 1890.		Total increase in	Total decrease in
Mean mileage worked.	Receipts.		Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mise worked.	1890.	1890.
747	Rs. 1,52,544	Rs.	767	Rs. 1,83,040	Rs.	687	Rs. 25,69,038	Rs. 234	760	Rs. *27,62,868	Rs. 227	Rs. 1,91,830	Rs.

[•] Audited up to week ending 7th Jone 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 125 miles open.

A Theorem and	COACHING	TRAPPI	c.	00000	MERCHAND		AND MIN	BRAI	Othere			Tot			TRAFFIC	TRAIN-MILE	s RUN.
(1) 中国 (Number of passengers,	Coach			Weight carried,		Receip	to.	festin			earnii			Coaching.	Merchan- disc.	Total.
		Rs.	A. 1	P.	MDs.	9.	Rs.	A. P.	Ra		. р.	Rs.	A. 1	р.			
Total traffic for the week Or per mile of railway For previous 2 weeks of half-	25,630 265	9,210	0		46,180 369	0	2,250 18	0 0			0	11,600 93	0	0	5,604	2,059	5,66
year	56,282	18,290	0	0	59,420	0	3,530	0 0	20	0 0	0	22,080	0	0	6,211	3,528	9,73
Total for 3 weeks	81,912	27,500	0	0	1,05,700	0	5,780	0 0	400	0	0	33,680	0	0	9,815	5,587	15,40
COMPARISON.			K			4									2 10		
Total for corresponding 13 days of previous year Per mile of railway correspond-	26,525	9,560	0	0	07,972	0	2,232	0 0	[3	0	0	11,823	0	0	3,560	2,112	5,67
ing period of previous year Total to corresponding date of	212	77	0	0	304	0	18	0 0				95	0	0	STATE OF		
previous year	88,399	28,946	0	0	1,01,950	0	6,143	0 0	16	0	0	35,252	0	0	10,032	6,234	16,26

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPT 20	S FOR WEEK OTH JULY 188	ENDING		TH JULY 189			L RECEIPTS PRO L 1889 TO 20TH 1889.			L RECEIPTS PRO L 1890 TO 19TH . 1890.		Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipta.		Mean mileage worked.	Total receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease 1
125	Rs. 11,823	Rs. 95	125	Ra. 11,600	ft.s. 93	125	Rs. 2,15,099	Rs. 108	125	Ra.	Rs. 100	Rs.	Rs. 14,786

^{*} Audited up to week ending 7th June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 86 miles open.

	COACHING	TRAFFI	c.	MERCHAND		AND MINER	LAL	Other en	nings	Tota	1	TRAFFIC	TRAIN-MIL	ES RUN.
	Number of passengers.	Coach		Weight carried.		Receipts.		(estimat		earnin		Coaching.	Merchan- dise.	Total.
		Rs.	A. P.	MDs.	8.	Rs. A.	. P.	Rs.	A. P.	Rs.	A. P.			
Total traffic for the week Or per mile of railway	9,410	4,310 50	0 0	8,360 97	0	960 0 11 0			0 0	5,380 62	0 0	2,414	690	3,104
For previous 2 weeks of half- year	27,350	8,330	0 0	21,780	0	2,190 0	0	150	0 0	10,670	0 0	4,172	1,182	5,354
Total for 3 weeks	36,760	12,640	0 0	30,140	0	3,150 0	0	260	0 0	16,050	0 0	6,586	1,872	8,458
COMPARISON.	STUME SECTION		510					1000				A TOTAL		
Total for corresponding week of previous year	12,659	4,011	0 0	5,631	0	635 0	0	37	0 0	4,683	0 0	2,456	928	8,379
Per mile of railway corresponding period of previous year	147	47	0 0	65	0	7 0	0			54	0 0	000		
Total to corresponding date of previous year	40,607	12,026	0 0	47,588	0	2,020 0	0	704	0 0	14,750	0 0	7,080	2,107	9,187

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

	rs for WEEK OTH JULY 188			TS FOR WEEK 9TH JULY 1890			. RECEIPTS PRO L 1889 TO 20TH 1889.			RECEIPTS PRO L 1890 TO 19TH (Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileare worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.		Mean mileage worked.		Per mile worked per week.	increase in 1890.	decrease in 1890.
	Rs.	gs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	4,683	54	86	5,380	62	86	89,029	65	86	*97,568	71	8,539	

^{*} Audited up to week ending 7th June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 19th July 1890, on 271 miles open.

ent Maner et pleister	COACHING	TRAFFI	c.	MEE		RAP	ND MIN	BRA	-	Other earn	ings	Tota	ıl		TRAFFIC	TRAIN-MILE	8 RUN
	Number of passengers.	Coach		Weig	htearri	ed.	Receip	ts.	72	(estimate	d).	earnir	ıgs.		Coaching.	Merchan- dise,	Total
THE REAL PROPERTY.		Rs.	A. P.	1	Mos.	8.	Rs.	A. 1		Rs. A	. p.	Rs.	۸.	P.			
Total traffic for the week Or per mile of railway	3,210 118	1,190 44			15,790 579		860 82	0		10	0	2,060 76			510	444 *	95
For previous 2 weeks of half-	6,070	2,100	0 0		28,490	0	1,500	0	0	20	0 0	3,620	0	0	1,000	775	1,77
Total for 8 weeks COMPARISON.	9,280	3,290	0 0		44,280	0	2,860	0	-	30	0 0	5,680	0	0	1,510	1,219	2,72
Total for corresponding week of previous year Per mile of railway correspond-	2,446	968		A COL	7,413	VIII.	490	0		n	0 0		0		586	895	9
ing period of previous year Total to corresponding date of previous year	90 8,349	3,213	0 0	3 653	23,808	201	1,629		68	45	0 0				1,608	1,117	2,7

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIP 2	TS FOR WEEK OTH JULY 188	ENDING 9.		TS FOR WEEK 9TH JULY 189			L RECEIPTS FRO PRIL 1889 TO 20 JULY 1889.		TOTAL	PRIL 1890 TO 19 JULY 1890.	M 18T	Total	Total
Mean mileage worked.	Receipts.		Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease ir 1890,
971	Rs 1,409	Rs. 54	271	Ra. 2,060	Rs. 76	271	Re. 30,466	Rs.	271	Re. *31,313	Rs. 72	Rs. 847	Rs.

[.] Audited up to week ending 31st May 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAYS.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the week ending 19th July 1890, on 315 miles open.

47	COACHING	TRAPPIC.		AND MINERAL AFFIC.	Other earnings (estimated),	Total	TRAFFIC	TRAIN-MIL	ES BUN
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	including steam-boat.	earnings.	Coaching.	Merchan- dise.	Total.
		Rs.	MDS,	Rs.	Rs.	Rs.			
rotal traffic for the period on 315 miles open Dr per mile of railway	38,611 123	18,049 41	1,42,381 452	13,170 42	2,270	28,489 86*	4,927	6,472	11,399
for previous 1 week of half-	60,959	21,115	2,54,102	26,253	8,627	50,995	8,522	11,578	20,100
Total for week	99,570	84,164	3,96,483	39,423	5,897	79,484	13,449	18,050	31,499
COMPARISON.		TO BE							
otal for corresponding period of previous year on 273 miles open or mile of railway correspond-	36,364	11,915	2,25,550	18,337	3,391	36,643	4,734	5,843	10,577
ing week of previous year	133	44	826	67	1	112*			
otal to corresponding date of previous year	118,018	42,300	6,01,924	49,882	9,627	1,01,809	13,958	16,658	30,616

[•] Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

	TS POB WEEK OTH JULY 18			THE JULY 189			FRIL 1889 TO 20 JULY 1889.		1000	I RECEIPTS FRO APRIL 1890 TO TH JULY 1890.	Mist	Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked,		Per mile worked per week,	lugrense in 1890-91.	decrease is 1890-91.
	Rs	Ra.	1	Ra.	Ra,		Řs.	Rs.	. 10	Ra.	Rs.	Rs,	Rs.
273	83,643	123	815	28,489	90	273	6,20,130	151	280*25	6,77,328	161	57,198	- 1

DARJEELING-HIMALAYAN RA	ILWAY (COMP	ANY, LIMI	TED.		B	ks.
Approximate earnings for first 12 days of	July 1890	-				15,1 13,	923 156
Increase	1	•••				2,7	767
Receipts per mile for first 12 days of July Corresponding period of 1889	1890				Rs. 312 257	3	11.00
Increase	**	**			54	4	1



The Calcutta Gazette.

WEDNESDAY, AUGUST 13, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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REVISION OF APPENDIX A OF THE ACCOUNT RULES UNDER THE BENGAL MUNICIPAL ACT, 1884.

THE following is published for general information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

The 12th August 1890.

Secretary to the Govt. of Bengal.

MUNICIPAL DEPARTMENT-MUNICIPAL-No. M $\frac{2R}{18}$ 8.

Dated Calcutta, the 4th August 1890.

From—H J. S. Cotton, Esq., Secretary to the Government of Bengal, To—All Commissioners of Divisions.

I am directed to forward to you, for communication to all municipalities in your Division, a copy of a letter from the Accountant-General, Bengal, No. LA dated 9th July 1890, together with its enclosure.

2. That enclosure is a revision of Appendix A to the Account Rules for municipalities issued under section 82 of the Act, and prescribes a revised procedure with suitable forms for adoption by municipalities in collecting taxes and rates. The revision of the Account Rules under section 82 is in progress, but it is not thought desirable to sanction any revised rules during the current

year. In the meantime, however, the revision in regard to procedure is complete, and the accompanying Appendix A, with the letter from the Accountant-General explaining the changes made, is now circulated for the information and guidance of municipalities. Wherever possible, the new procedure should be introduced at once, and it is the desire of Government that it should be every-

where adopted with effect from the 1st April 1891.

3. One important feature in the forms herewith prescribed is that the remission register, the tax collector's daily register, and the progress register, provide columns for the transactions of two years only. The Lieutenant-Governor entirely concurs with the Accountant-General that it is necessary to enforce greater punctuality in dealing with municipal taxation. In many municipalities the accounts are now four or five years in arrear without any excuse or justification. It commonly happens that the executive is in arrear with taxation, and that the outstandings cannot be clearly ascertained and proved from the registers, and the audit therefore for practical purposes breaks down, a certified list of outstandings being obtained and accepted as the basis of audit. This unsatisfactory state of things is due principally to laxity in management, but also in some measure to certain imperfections which experience has detected in the taxation accounts. The object of the revised forms and procedure is to remedy these defects.

4. In the Lieutenant-Governor's opinion not more than one complete year of arrears should ever be allowed. Taxes should always be collected or remitted with far greater promptitude than is now done. Municipalities which, like Ranchi and Kurseong, work in a business-like manner, never have more than two quarters' arrears, and very often not more than one; and if municipalities generally avail themselves of the means provided in sections 120 to 129 of the Act, there is no reason why taxation should ever be allowed to fall into arrear

for a long period.

5. The revision of assessments in municipalities is also a very important duty which the Lieutenant-Governor desires to take this opportunity of impressing on Municipal Commissioners. In some municipalities this duty is properly discharged, but in too many it is entirely neglected. Mr. Atkinson rightly points out that the new rules and forms should be accompanied by a revision of assessments, and the Lieutenant-Governor trusts that the immediate attention of Municipal Commissioners may be turned to this question, so that the revised assessment and new forms may be introduced together without

GENERAL OUTLINE OF THE TAXATION ACCOUNTS.

The municipality is divided into taxation circles, and these are sub-divided into mohallas, streets, roads, &c., according to convenience

A complete and separate set of registers is maintained for each circle, and from the circle

registers the results are compiled for the whole municipality.

Circle Accounts.—The Demand Registers show the demand to be made against each rate-payer. The totals are brought on to Abstracts. Subsequent remissions in respect of the next demand are entered in the Remission Registers, whence the details pass into the Demand Registers, and the totals into the Abstracts in correction of the demand previously shown Additions to the demand are similarly treated through the Enhancement Registers.

Bills made out are registered and are satisfied by payment or remission in whole or in part, payments being posted into the Bill Registers from the sircar's daily collection accounts,

and remissions from the Remission Registers.

Compilation of the municipal accounts.—The total municipal demand is compiled from the circle abstracts into an abstract for the whole municipality, and passes into the tax-darogah's daily register for the quarter concerned. There will be as many of these tax-darogah's daily registers in use as there are quarters in respect of which there are bills outstanding. See

Against each quarter's demand are written up daily (a) the payments in respect of that demand taken from the several sircar's collection accounts; (b) the remissions from the Remis-

sion Registers; and (c) the outstandings

Lastly, the daily registers are abstracted and a monthly progress statement is worked out for each sircar, so that the outstandings for each quarter can be checked and compared with the undelivered receipts in the hands of the collecting agency, and all arrears can be promptly

dealt with either by enforcing payment or remitting the amounts.

N.B.—It will be observed that the Remission Registers, the sircar's daily registers, and the monthly progress statements provide for transactions relating to the current and previous year only. Except under very special and unusual circumstances, taxation should never be allowed to fall into arrears extending over more than one complete year, and municipalities which deal promptly with taxation seldom have more than two quarters' arrears or three at

Rules 51 to 56 below prescribe the procedure to be adopted by the Municipal Commissioners in watching the taxation accounts, in reporting upon arrears and in clearing the

registers.

DIVISION OF THE MUNICIPAL AREA INTO CIRCLES.

2. The municipality shall be divided into collecting circles by a calculation based on the area of ground to be traversed and the number of bills to be delivered. Each circle shall be numbered, and to each circle shall be appointed a sircar. The collecting circles should be as compact as possible, and so arranged as to distribute the work of tax collecting evenly among the sircars. No collecting circle shall contain more houses than can be visited by one sircar during the working days of a month.

3. The circles having been determined, and the assessment list, or the valuation and rating list prescribed by section 112 of the Act having been published, the registers of the

municipal rates and taxes shall be opened.

4. Whenever a municipality levies a house-rate upon owners, and also a rate or rates upon occupiers for water, latrines or lighting, a double set of registers shall be opened, i.e., one set for owners and the other for occupiers.

5. The procedure of opening and maintaining both of these sets of registers is alike. For the sake of brevity therefore the procedure as regards owner's house-rate only is described in the following rules. But the rules apply equally to the house tax and to rates leviable from occupiers.

6. Similarly, to avoid duplication the specimen forms annexed have been drawn out and headed as for owner's house-rate only, but with slight and obvious verbal modifications they are equally adapted to the house tax, and to the water, latrine, and lighting-rates which are leviable from occupiers, and the necessary additional columns must of course be introduced when more than one tax or rate is levied from occupiers.

7. The following is a list of the forms and registers which shall be kept :-

Demand Registers by circles.

Demand Abstracts by circles.

Demand abstract for the whole municipality.

Bill forms.

Bill Registers by circles.

Sirear's Collection Registers by circles.

Tax-darogah's Daily Registers by quarters.

Abstracts of Tax-darogah's Daily Registers, by quarters.

Progress Statements by circles.

Petition Register. [This may also, if convenient, be kept by circles.]

Remission Registers by circles.

Enhancement Registers by circles.

THE DEMAND REGISTERS.

The Demand Registers shall be in Form A.

FORM A. CIRCLE No.

Demand Register of Rate on the Annual Value of Holdings leried under Act III (B.C.) of 1884.

Number on	ığı.			ORIGINA	AL RATE.		Subsequ	UENT REVI	SIONS.	page and Register or in the New and Idings.	Vice.		
nting list pub- lished under section 112	of holding.	e.	As per re	iting list.	As per firs	t demand.		Future rate.			the		
r serial No. in the enhance- ment register if subsequently added.	Description of	Owner's name.	Annual value of holding.	Quarterly instal- ment.	Annual value of holding.	Quarterly instal-ment.	Date of revising order,	Annual value of holding.	Quarterly instal- ment-	Reference to entry in the of Remission Kegister of Improved H	Initials of Chairman.	REMARKS.	
1.	2	8		5	6	7	8	9	10	n	12	13	

a separate volume shall be assigned to each collecting circle, and a sub-division of the volume to each mohulla, road or street as may be most convenient: a sufficient space being left below each sub-division for subsequent entries of new holdings.

N. B.—The same sub-divisions in the same order shall be followed in posting the Bill,

the Remission and the Enhancement Registers.

9. Columns 1 to 5 shall be filled up from the rating list; and a space of 2½ or 3 inches

shall be left between each name in order to provide room for posting revisions.

10. As petitions against the rating list come in [see rules 19 and 20 below], their numbers and date shall be noted in column 13, "Remarks," in order to keep the entries to be made in columns 6 and 7 open to the latest convenient date.

11. Columns 6 and 7 shall be filled up as follows:—

First.—In respect of those names against which there is no reference to petitions in column 13, by entering the same amounts as are shown in columns 4 and 5 respectively.

Secondly.—In respect of those names against which the receipt of a petition has been

noted, by entering the amounts shown in the orders passed by the Commissioners of Appeal, or, if no orders have been passed in time, the amounts shown in columns 4 and 5 respectively.

12. Columns 6 and 7 shall be totalled by sub-divisions. The Vice-Chairman, the Secretary, or a Commissioner appointed for the purpose, shall then carefully compare the entries in columns 1 to 7 with the rating list, and with the orders of the Commissioners of Appeal, and shall sign his name below each sub-divisional total in token of having made this comparison. Each sub-divisional total shown in column 7 shall then be posted into the quarterly demand abstract of the circle in Form B, which shall be prepared on the opening pages of each Demand

Register.

13. Columns 8 to 11 shall be filled up from columns 3, 25, and 26 of the Remission Register, or from columns 2, 8, and 9 of the Enhancement Register, as the case may be.

14. The Vice-Chairman shall take care that the Demand Registers are free from erasures, officer empowerd to sign for him.

ABSTRACT OF DEMAND FOR EACH CIRCLE.

15. The abstract shall be prepared in the opening pages of each Demand Register. It shall be in Form B.

FORM B. CIRCLE No.

Quarterly Abstract of the demand on account of Owner's House-rate during the currency of the Valuation published in the year.....

Participation of the Participation		SUB-DIV	ISIONS o	F THE CI	RCLE.		
	No. 1.	No. 2.				TOTAL.	REMARKS.
Demand for the [First] quarter of 18 Add new and improved holdings during the quarter (as per total of column 11 of Enhancement Register)							
Total *							
Deduct remissions granted during the quarter (as per total of column 28 of Remission Register)							
Demand for the [Second] quarter of 18		2014					
(and so on)	1000						

16. The first entries shall be posted from the sub-divisional totals shown in column 7 of the Demand Register, and thereafter the entries shall be posted punctually every quarter from the Enhancement and Remission Registers as prescribed and explained in the form itself.

17. The totals of each Circle Demand Abstract shall be posted quarterly into the Abstract of Demand for the whole municipality, which may conveniently be placed at the beginning of the Demand Register belonging to circle No. 1.

ABSTRACT OF DEMAND FOR THE WHOLE MUNICIPALITY.

18. This abstract shall be in Form C. It shall be posted quarterly from the totals of the Abstracts of Demand of each circle.

FORM C. Quarterly Abstract of the demand on account of Owners' House-rate during the currency of the Valuation made in the year

		Cor	LECTIN	CIRC	LES.			
	No. 1.	No. 2.					TOTAL.	REMARKS
Demand for the [First] quarter of 18								
Add new and improved holdings during the quarter		ß	4 0					
Total Deduct remissions granted during the quarter								
Demand for the [Second] quarter of 18	177.00 177.00 177.00					SILVE SID b	grag The service of t	CL store CL sy Office was 1
(and so on).	7 (142)							

Petitions.

19. Petitions against the assessment should, if possible, be presented in forms of a uniform pattern. The use of the form annexed to these rules is suggested for this purpose.

20. Petitions shall be registered in Form D by means of which the progress made in dealing with petitions shall be watched.

FORM D.

PETITION REGISTER.

Register of Petitions for exemption from or reduction of Owners' house-rate.

		HOLDIN	G TO WHICH	THE PETI-				
Serial No.	Name of petitioner.	Circle.	Sub-division.	No, on list published under sec- tion 112 or on Regis- ter of New and Im- proved Holdings.	Date of receipt of petition.	Date when passed on by Vice-Chair- man to revising authorities.	Date of orders passed on petition,	Remarks and note of whether entry has been made in the Remission Registers.
1	2	3	1.7	5	6	7	8	9
	4 45 15					4 11:11		
	3 2 3							

REMISSION REGISTER.

21. All remissions shall be entered in the Remission Register, Form E, of the circle concerned.

FORM E. CIRCLE No.

Register of Remissions of Owner's house-rate granted during the quarter ending

			street or road.	4		stood		-	nonn	t ren	by en thes	i for	each	qua		1	ount	rem	itte	100	each	gun		Future rate into the	by reduc- bound next made. to be posted Demand gister.	being the	etween pre- (columns 7 l revised rate 25 and 26) amount by e future de- l be reduced	П	Ren	narks,
		remission.	village, s	on rati	177			qua	st rter.	2n qua		3rd quar			h ter.	qua		Qua		qua			th			1000		rmsn.	to p	roceed s, peti-
Total Company	Serial number.	Date of order of rem	Sub-division, e.g. vi	12	Owner's name.	Annual value of holding.	Quarterly instal-	Number of bill.	Amount.	Number of bill.	Amount.	Number of bill.	Amount,	Number of bill.	Amount.	Number of bill.	Amount.	Number of bill,	Amount,	Number of bill.	Amount,	Number of bill.	Amount.	Annual value of holding.	Quarterly instalment.	Annual value of holding.	Quarterly instalment.	Initials of Vice-Chai	irre	ings, peti- tions and lists of irrecover- able rate bills, &c.
1	9	3	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30

22. Remissions are of two kinds, viz .-

(a) Those in respect of bills made out, whether actually served or not.
(b) Those in respect of the demand next to be made.

Two separate sets of columns are therefore provided, viz., Columns 9 to 24 for bills drawn, and columns 25 and 26 for future rate. The remissions shown in columns 9 to 24 shall be posted into the Bill Registers in detail, and the daily total of these remissions shall be posted into the tax-darogah's Daily Registers, Form J, for the circles and quarters concerned.

The amounts in columns 25 and 26 shall be posted in detail into the Demand Register,

Form A.

The quarterly total of column 28 shall be posted into the Circle Demand Abstract.

Form B.

23. Whenever a remission is granted in respect of a bill made out, the counterfoil of the bill and also its red receipt shall be placed, together with the Remission Register, before the Vice-Chairman.

If the demand has been entirely remitted, both the counterfoil of the bill and the red receipt shall be stamped "Cancelled" in large type, and the fact of cancellation attested by the initials of the Vice-Chairman.

If the demand has been reduced, the necessary correction shall be made in the counterfoil of the bill and in the red receipt, and attested by the initials of the Vice-Chairman.

ENHANCEMENT REGISTER.

24. All new assessments made after the publication of the list under section 112, and all enhancements of the original assessments, shall be posted in the Enhancement Register, Form F, under the initials of the Vice-Chairman or Secretary.

FORM F.

Enhancement Register of new and improved holdings, showing increase to the

prougnt on			2	19 70			ON.	AMOUNT CREASE MAND.	OF IN- TO DE-	reference	nitis 16.
Date when register.	Sub-division.	No. of holding, if any, Register.	Name of owner and description holdings,	Annual value of bolding.	Quarterly in- stalment.	Annual value of holding.	Quarterly in- stalment.	Annual value of holding.	Quarterly in- staiment.	and &c.	Vice-Chairman's initia la
9	3	4	5	6	7	8	9	10	11 4	13	13
						A PARTIES					
2 30 10	regist	Sub-div	7								

25. The entries in columns 8 and 9 shall immediately be posted in detail into the Demand Registers in the space left for this purpose below the sub-division concerned (see rule 8), and the quarterly total of column 11 shall be posted into the Circle Demand Abstract, Form B,

to work out the demand for the following quarter.

26. It must be remembered that, under section 93 of the Act, the new and enhanced

assessments take effect only from the beginning of the following quarter.

BILLS AND BILL FORMS.

27. Bills for house-rate shall be in three parts in Form G, the receipt portion being printed in red ink. FORM G.

No. MUNICIPALITY OF	No. MUNICIPALITY OF	No. MUNICIPALITY OF
COUNTERPOIL FORM NO. Rate on Holdings Bill.	Receipt for rate on holdings paid to be given to the rate-payer under Section 119, Act III (B.C.) of 1884.	Bill due for rate on holdings under Section 120 of Act III (B.C.) of 1884.
Collecting Circle Sub-division Number of holding on Valuation Register		(Name.)
Sub-division		
	Owner of holding shown in the Municipal	Owner of holding shown in the Municipal
Number of holding on Valuation Register	Registers as Noin collecting Cir-	Registers as Noin collecting Cir-
Name of owner	oleand in the	cleand in the
Name of owner	Sub-division	Sub-division
Bill for the quarter of 18 .	Dr.	Dg,
Rs. A. P.	To quarterly instalment of rate on hold-	To quarterly instalment of rate on hold-
	ings payable in advance on the first day of	To qualitary manufactor or ratio on about
Amount	the quarter on account of the above-men-	ings payable in advance on the first day of
	tioned holding for the quarter ending	the quarter on account of the abovemen-
	18 .	tioned holding for the quarter ending
	ings payable in advance on the first day of the quarter on account of the above-mentioned holding for the quarter ending	18 .
Date of Bill	Amount	
	Received payment.	Ra. A. P.
Date of service of Bill		Amount
Date of service of notice of demand	Municipal	
Date of service of warrant	Seal.	
Date of service of waterant		
meetings in second down	Sirear.	
	DATED AT The	Date of service of this Bill
Sircar.	DATED AT	
TNR Without I	The18 . J	
[N.B.—If the rate is recovered from the occu- pier under the provisions of section 105, the name of the occupier must also be stated.]	N.B.—This receipt will not be valid unless signed by the Tax-Collector or Cashier.	Vice-Chairman.

28. An estimate shall be made of the number of forms likely to be required for a year's Printing at Calcutta to supply the bill forms printed in English, or in the vernacular, or both, the complete year's supply being consecutively numbered, and stitched in books of convenient size (say each containing 100 forms).

The full year's supply need not of course be obtained at once, but by means of two or more

indents, so as to ensure the year's supply agreeing very closely with the actual requirements.

29. The surplus forms, which will be very few in number if proper care be taken in making the estimate and indents, shall be destroyed by the Vice-Chairman at the end of each

year.

30. On receipt of the forms from the press, they shall be counted under the supervision of the Vice-Chairman or Secretary. On the fly leaf or cover of each book shall be noted the number of forms it contains attested by the initials of the person who counted them.

31. The Vice-Chairman shall keep the bill forms in his personal custody and under lock and key. He shall draw up written instructions prescribing in minute detail the procedure to be adopted in registering the receipt and issue of the forms, in supervising the issue of forms to the bill writers, and in proving that they deliver back every bill form which they have been entrusted to fill up, and in proving the issue of the completed bills to the sirears.

32. The Vice-Chairman shall be especially and primarily responsible for preventing the preparation of fraudulent bills, as well as for closely and constantly watching and enforcing the prompt realisation or obtaining the speedy remission of all bills which bear his signature.

33. The bill forms shall be filled up from the Demand Registers, and the Vice-Chairman shall issue written instructions regarding the comparison of the Bills with the Demand Register before they are brought to be signed.

34. The bills shall be signed or stamped with a fac simile signature by the Chairman, Vice-Chairman, Secretary, or the Commissioner for the ward to which the bills belong, and the signing officer shall satisfy himself that the comparison of the bills with the Demand Register has been carefully made.

35. If a fac simile stamp be used, it shall always be kept in the personal custody of the officer whose signature it represents, and shall never be used except in his presence and actually in his sight.

BILL REGISTER.

36. The signed bills shall be entered in the Bill Registers, Form H. The form requires no explanation, but it should be noted that in the case of bills paid in full a tick mark may be entered instead of the amount in columns 6, 12, 18 and 24.

FORM H.

CIRCLE No.

Register of Bills for Owners' rate on holdings for the year......

	the				FIRST Q	UARTI	IR.				
Sub-division.	No. of holding on Demand Register.	Name of owner.	1100		2707.530	How s	atisfied.		A set of columns Simi-		
SCP-DIVISION.	f hold		bill.	at.	Paid	l.	Remitt	ted.	har to Nos. 4 to 9 for 2nd, 3rd, and 4th quar- ters, respectively.	REMARKS.	
	No. o Der		No. of bill.	Amount.	Amount.	Date.	Amount.	Date.	例是《新开放》,其后中第四次的第三个字		
1	2	8	4	5	6	7	8	9	10 to 27	28	
	Lavido Barriera			100							
Community for					alain bu					- P	
					Melliniki	184					
e a for a more to be a first e divine e mar escholare e	Application of the second	110			0.00270.0	1000					
eri) in britaine as	SELECTED STATES		Table.	Car.	3a- 3a/7-25	Senio C	The state of				

37. As stated in rule 8, the sub-divisions of each Bill Register will be identical with those of the corresponding Demand Register.

38. Each sub-division shall be totalled every quarter under the initials of the Vice-Chairman or Secretary, and shall be compared and agreed with the figure in the Circle Demand Abstract, Form B, which shall be signed by the Vice-Chairman in token of agreement.

SERVICE OF BILLS.

39. The bills having been made over to the collecting sirears in accordance with the procedure prescribed by the Vice-Chairman under rule 31, each sirear shall commence the service of the bills on the first day of the quarter.

of the bills on the first day of the quarter.

40. If the tax be paid upon presentation of the bill, the sirear shall sign the red receipt, shall hand the bill together with the receipt to the tax-payer, and shall note the date of payment in the counterfoil of the bill, and he shall also enter the transaction in his Daily Register of collections, Form I.

FORM I.

CIRCLE No.

Sircar's Daily Register of Collections on account of Owner's house-rate.

			grid and live out tilbury		AC	UNT RI	T OF T	HE	AMO	N ACC	RECEIV OUNT O YEAR.	P P			
Date.	Sub-division.	Number of holding.	Owner.	Number of hill.	First quarter.	Second quarter.	Third quarter.	Fourth quarter.	First quarter.	Second quarter.	Third quarter.	Fourth quarter.	Total.	Warrant fees.	Remarks and note of any bil paid to the Cashier at Office.
1	2	3	• * * * * * * * * * * * * * * * * * * *	5	6	7	8	9	10	n	12	18	14	1.5	16
March				Nadi Nadi					un des						
			All halom				71 2							50	
one Time		e di la	dro i Aleso	a to	distant				Tol						ME AND SOLD
		200			SECULO.		tilo		智力		Cicy Falls	(A)(1)(2)			
			illa ont I		Siano)	nami	10 St		300	瓦锡			2003		Control of
	wall old	0.41	Dang din			N/S	4350								

41. He shall either take the register with him on his rounds and enter therein each payment as he collects it, or if, owing to the size of the register, or to there being more than one

kind of tax, this plan is found inconvenient, he shall take with him a note-book in the following form :-

NAMB.	No. of bill.	Whether for last or current year.	For what quarter.	House,	Latrine,	Water,
1	9	3	4	5	6	7
			Marin And	Rs. A. P.	Rs. A. P.	Es. A. P.

This note book may conveniently be of foolscap size divided lengthways, the left hand

page being assigned for columns 1 and 2, and the right hand page for columns 3 to 7.

42. If the tax be not paid upon presentation of the bill, the sircar shall separate the bill from the receipt and serve the bill in the manner prescribed in section 356 of the Act. He shall at the same time, whenever possible, inform the assessee on what date he will again

demand payment.

43. The sircar shall return to the Municipal Office either every day, or, if so permitted by the Vice-Chairman, every alternate day, and shall deliver to the tax-darogah all the money he has collected, together with his daily register duly written up in Form I, and the bill

books relating thereto.

44. The tax-darogah shall then check the sircar's account by comparing the amounts shown

in the register with the bill book counterfoils from which the red receipts are missing.

He shall then total the register and see that it corresponds with the money delivered to him by the sircar. If all is in order, he shall initial the register in token of having received the money.

45. If the sirear takes his daily register with him on his rounds, he shall be provided with two copies, which he shall use alternately, and he shall leave one copy in the office to enable the tax-darogah to post his books.

46. The entries in the Sircars' Daily Registers shall then be posted into the Bill Registers, and the tax-darogah shall post the total amount received from each sirear into his cash-book as provided in Part I of the Account Rules.

47. The tax-darogah shall then post his Daily Registers of Collections, Remissions and Outstandings in Form J.

N. B .- There will be one of these registers in use for each quarter, the demand for which has not been wholly FORM J.

Tax-darogah's Daily Register of Collections, Remissions, and Outstandings of house-rate in respect of the quarter ending

Memorandum of the quarter's			CIRCLE	No. 1.		Similar sets of column
demand in each circle.	Date,	Collections.	Remissions.	Total.	Outstanding.	3 to 6 for every other circle.
\\ 1	2	8 3	91.09 4 5 5	5	6	7
Brought forward from last month Circle No. 1 Rs						
"&c. " 2 Total municipal demand, Rs						
Total of the month		到图 类的			A CONTRACTOR OF STREET	

The columns headed "Collections" shall be posted from the tax-darogah's cash-book, and those headed "Remissions" from the columns of the quarter concerned in the several Remission Registers.

49. When the total for the month has been struck, an abstract shall be prepared in Form K, showing the condition of the taxation account in respect of the quarter to which the particular daily register relates, viz.-

FORM K.

Abstract of the Tax-darogah's Daily Register for the quarter ending

				Circle No. 1.	Circle No. 2.	&c.
Demand						
Collections up to end of last month						
Collections this month	***		***			
	Total co	ollections				-0
Remissions up to end of last month Ditto this month		::			C	
	Total r	emissions				
Total collections plus remissions Outstanding for the quarter ending						
				Ser Manager	The state of the s	

50. The abstracts for every quarter in respect of which there are outstandings having been prepared, their totals shall be posted into monthly progress statements, which shall be prepared separately for each circle, so as to show clearly how each sircar is working the circle entrusted to him. The circle progress statement shall be in Form L.

		100000000	FORM	7.0					
MONTHLY PROGRESS STA	TEMENT	OF CIRC	OLE No.	UND	ER SIRCA	AR		•4	
		LAST	YEAR.			CURRE	T YEAR.		Total.
	1st quarter.	2nd quarter.	3rd quarter.	4th quarter.	1st quarter.	and quarter.	3rd quarter.	4th quarter.	
Demand for each quarter Collections up to the end of last month for each quarter. Collections during this month for each quarter.									
Total collections for each quarter Remissions up to the end of last month for each quarter. Remissions during this month for each quarter.									
Total remissions for each quarter Grand total of collections plus remissions for each quarter. Balance outstanding for each quarter									

51. The progress statements for each circle shall be verified by the Vice-Chairman or Secretary and the Accountant, and shall be laid before the Commissioners each month at their ordinary monthly meeting held under section 38 of the Act.

52. It will be unnecessary to compile the circle progress statements into a combined statement for the whole municipality every month, but it shall be done at least twice a year,

and as often as the Commissioners may require it.

53. The progress statement of each circle shall be carefully scrutinised by the Commisers at their monthly meeting. Whenever any progress statement shows outstandings sioners at their monthly meeting. extending over three complete quarters, the Commissioners shall cause a detailed list to be prepared of the bills outstanding for more than a complete half-year.

54. This list shall be prepared, circle by circle, from the Bill Registers by a clerk unconnected with the taxation department, if possible, and shall be verified by comparison with the undelivered receipts by the Secretary or other officer nominated to the duty. If the circle totals do not agree with those shown in the progress statements, a Committee shall be appointed to audit the taxation accounts and to reconcile the difference. If this difference be not reconciled within fifteen days, the Municipal Commissioners shall submit to the Magistrate a report stating the amount of the difference, the causes to which it is attributed, and the steps taken to reconcile it.

55. The Commissioners shall proceed to deal with the outstandings either by collecting or remitting the amounts. Every year, in the month of June, the Commissioners shall submit a taxation report through the Magistrate to the Commissioner of the Division in the form of a combined progress statement for the whole municipality, and if there are outstandings extending further back than the first quarter of the previous year, full explanation shall be given as to why these taxes have neither been collected nor remitted, and the Commissioner of the Division shall forward these explanations to Government with his remarks.

56. The outstandings mentioned in rule 55 will be dealt with as a separate arrear account and worked entirely from the lists. i.e., in the month of June, in preparing this list of old outstandings from the Bill Registers, the letter A in blue pencil shall be entered in the Bill Registers against each bill transferred to the arrear list, and the total amount transferred shall be noted at the foot of the circle progress statement concerned.

All subsequent realisations or remissions of the bills so transferred shall be entered in the list only, and not in the Bill Registers or Remission Registers, which provide for the current and last year's transactions only. The sircars shall set apart separate pages in their collection register or note-book for the entry of these arrear collections. The general registers will thus be wholly cleared, and shall not be used for the record of what have become practically

SECOND SERVICE OF BILLS, NOTICES OF DEMAND AND DISTRESS WARRANTS.

On the first day of the second month of the quarter, the sircar shall ag ain take round the undelivered receipts, together with notices of demand, which shall in the interval have been attached to the receipts by the tax-darogah. If the demand is then not paid, the notices of demand shall be left with the assessees, and the undelivered receipts shall be returned to the tax-darogah for the preparation of distress warrants with a note of the date on which the notices of demand were served. When fifteen days shall have elapsed after the delivery of a notice of demand, the sircar shall proceed with a warrant of distress, and if the demand as well as the fee prescribed by law for the years of the notice of the notices of demand. well as the fee prescribed by law for the warrant expenses be not then satisfied, he shall make an attachment of the defaulter's property, preparing an inventory of all goods and chattels so attached, and proclaiming a notice of sale by beat of drum. BILLS PAID AT OFFICE.

58. In the event of any unpaid bill, of which the counterfoil and red receipt are in the custody of the tax-darogah being brought to the Municipal Office and there satisfied, the tax-darogah shall deal with the transaction precisely as the collecting sircar does in ordinary course, entering the amount in the Sircar's Daily Register, and noting the fact that the bill has been paid at office in the remark column as provided in the form.

COLLECTION OF TAXES AT THE MUNICIPAL OFFICE.

59. An alternative procedure is suggested, the distinctive feature of which consists in the refusal to permit the sircars to collect any money. Their duty will be strictly limited to serving the bills and notices of demand upon the assessees in the manner prescribed in the preceding rules. But each bill will contain a caution against the payment of any money to the server of the bill, and a direction to the rate-payer to proceed to the Municipal Office and pay the amount of the bill there.

60. At the end of each week the serving peons will bring back the bill-books and receipts to the Municipal Office with a certificate that every bill missing from the book has been

properly served upon the assessee.

61. The tax-darogah, assisted by a sufficient number of clerks, should remain in the Municipal Office at a counter during certain fixed hours of each day, and upon presentation of a bill by a tax-payer he should receive the amount and hand to the tax-payer the corresponding

red receipt.

62. The amount so received should be entered in a Daily Receipt Register, Form I, one such register being used for each kind of rate or tax. A separate register or set of registers should of course be supplied to each receiving clerk.

Form for Petition of Objection against assessment or valuation under Section 113 of the Bengal Municipal Act, to be presented within one month from the date of publishing the Assessment or Valuation List.

[The petitioner is required to fill up only seven columns, Nos. 1 to 7; the rest are to be filled up by the Officers noted herein.]

1		3	4		6	7	8	9	10	11	12	13
		No, or name of the	No. of house on	T	ix.	Grounds of remis-	Office certificate as	Opinion of the Ward Commis-	SUB-COMMITTEE'S GARD TO EA	ORDERS WITH RE-	Initials of the	Remarks of the dis-
petition,	Petitioner's name, his father's name.	mohalla in which each house exists.	No. of house on the Register over- assessed in each moballa.	Paid last year.	Assessed this year.	Grounds of remission to be stated in brief by the applicant.	Office certificate as to the correct- ness of columns 1 to 5 (in brief).	sioner or of the officer enquir- ing.	Amount remitted.	Amount finally assessed.	disposing officer.	Remarks of the dis- posing officer as to any arrears due from the petitioner, and the date from which the order is to take effect.
											615	
									1.5			
				*							1	

No. 198Mne., dated Calcutta, the 4th August 1890.

THE following report of the 13th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners of the Port of Calcutta, is published for general information.

J. M. McNEILE, Col., R.E., Secretary to the Government of Bengal.

QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

Dated Calcutta, the 31st July 1890.

From—Major A. D. McArthur, R.E., and W. Connan, Esq., To—The Secretary to the Government of Bengal, Public Works Department.

ADVERTING to the orders of the Government of Bengal, communicated with your letter No. 1874M. of the 19th instant, we have the honour to report that the 13th quarterly inspection of the Dock Works was made on the 26th instant.

2. The usual tabular statement and the index plan showing the work done during the quarter, ending 30th June last, and the total amount executed from the commencement which have been prepared by the Superintending Engineer of the Dock Works, are already with Government. The present state of the various works under construction is reported in the following paragraphs:—

Sixty feet Lock.—This work is completed with the exception of the riverside revetments; about 13.7 per cent. of excavation and 2.6 per cent. of masonry work still remains to be done. The hanging of the riverside gates is almost completed.

Eighty feet Entrance.—The hanging of the gates is finished, and, with the exception of the riverside revetments, the work is almost completed. About 21.0 per cent. of excavation remains to be done.

Double entrance to Dock No. 1.—The work is almost completed, the gates being hung, and the completion of the erection of the swing bridge only remaining.

Tidal Basin.—The quay wall foundation has now been completed, and only a small quantity of the superstructure remains to be done; about 7.4 per cent. of masonry still remains.

Graving Dock.—All foundations are in; earthwork completed and only 4.3 per cent. of masonry remains to be done. The foundations of the engine-house and chimney shaft are also in.

Government Graving Dock.—Earthwork completed, foundations all in and two-thirds of the masonry done.

Deck No. 1.—The quay wall foundations and masonry all completed, with the exception of coping; 3,771,383 c.ft. of excavation is completed, and about 14.0 per cent. remains to be done. Considering the state of the work, it is expected that the earthwork will be completed during the current quarter.

Boat Canal.—During the quarter the excavation of this work was proceeded with, and about 1,978,618 e.ft. of earthwork executed, thus leaving only 25·1 per cent. of excavation to be done. The lift-lock is finished with the exception of gate erection. Main pumping station is well in hand. The bridges are practically complete with the exception of the approaches. The foundation of the Chetla Hat lock is in a forward state.

Subsidiary Works.—The chimney, shaft and engine-houses are complete, and the engine erected. The accumulator tower is bordering on completion and the erection of the accumulator almost complete. The jetty heads to the entrance are well in hand, and good progress has been made with the foundations of six cargo sheds.

Expenditure.—The total expenditure up to end of the quarter under review is reported to be Rs. 1,85,97,963, of which Rs. 1,59,95,278 represent outlay on works and Rs. 26,02,685 on account of land.

Sanitary.—The health of the workpeople was not so satisfactory as in the previous quarter. The average number of coolies employed was 7,579, among whom there were 19.0 deaths, thus showing a death-rate of 29.30 per annum.

General Remarks.—We are of opinion that fair progress has been made with the works, and that so far as we have been able to judge from a quarterly inspection the character of the work was satisfactory, and the quantity of the work done was all that could be desired, promising completion at an early date.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 9th August, 1890.

-	No.	District and d	late	of)	Rainfa at Sudde Stationi inches.	Character of the weather and state and prospects
BEI	NGA	L.			1-0068	
		Western Die	etric	ts.	10000	Company of the Second
	1	Burdwan	Ano	. 9,	90 [3-51	Weather-hot and rainy. Transplantation of paddy going on. Prices of com-
		Culna	All		61.9	mon rice:—
		Ranigunge		41.5	20.	Burdwan 15)
		CHEN SE LOS				Culna 13 per rupee 151
	2	Bankoora		9, '	90 0-47	Weather—warm and clear. Transplanting of amun rice nearly finished. Weeding of aus going on. Sugarcane and til prospering. Common rice selling at 19 seers per rupee at Sudder and 17 seers at Bishenpore.
DIVS.	3_	Birbhum Rampore Hau	."	9,	00 0.89 8.59	A break of dry weather in the southern part of the district, but plenty of rain
BURDWAN DIVE.	4	Midnapur		9,	90 0.74	Weather—fine generally, with occasional showers. Paddy is still being transplanted. Poor outturn of indigo in the Sudder subdivision. Prices of common rice:—
			0.1		11 25	Srs 151
						Contai 16 (per rupee
						Tumlook 14 Grant April 16
	5	Hooghly Scrampore Jehanabad		les.	3·16 1·58 3·41	Weather—seasonable. Prospects of crops promising. Prices of common rice:—
			X9167		I PARENTE	Sudder 18 } per rupee.
851						Jehanabad 14½)
	3	Howrab Uluberia Central Distr	*		90 2:46	Weather—showery. Transplanting of amun continues. Aus, jute, and sugarcane doing well. More rain wanted in parts of the Uluberia subdivision. Price of common rice 13 to 14 seers per rupee.
1	6			12,	3.10	Weather—seasonable. Prospects of aus and jute continue fair. Transplantation of amus going on briskly, but more rain wanted in places. Prices stationary.
	7	Nuddes	33	9, 4	0 3.80	Weather—seasonable. Prospects of standing crops good. Aus paddy on chur- lands damaged by the rise of the rivers. Indigo crop unsatisfactory.
	Tr.	Kushtea Meherpore		2011		lands damaged by the rise of the rivers. Things drop anoncontently.
DIAM.		Chuadanga Ranaghat			1.11	
KOX	8	Khoolns	11	9, '	0 2.00	Weather—sensonable. Prospects of crops continue favourable, but transplantation has been somewhat retarded on the low lands in Bagirhat and Khulns
DEN		Bagirhat Satkhira	333		1.85 1.84	by excessive moisture.
PRESIDE	9	Jessore Jhenidah	1	9, '	0 1.48	Weather—hot and cloudy, with occasional showers. Harvesting of aus going on. Prospects of aman good. Rivers rising. Some damage done to aus
P.		Magura			2.09	crop in thana Saiikopa and also in part of thana Jhenidah by the early
70		Narail Bongong			1:00	rise of the river.
1	10	Moorshedabad	"	9, '1	0 1.52	Weather—fine with passing clouds. Bhagiruthee unprecedentedly high, gauge reading being this noon (9th August) 30' 6½". Much damage has been done to the bhadoi crop in the Lalbag and Jungipore subdivisions by the floods. Amun progressing on well.
	11	Dinagepur Thakurgaon	"	9, "	6.0	Weather—seasonable Transplantation of haimanti rice continues. Reaping of bhadoi rice and jute has just been taken in hand. Prospects very favourable. Price of rice stationary.
	12	Rajshahye	29	9, '	0 2·05 3·15	Weather—seasonable. Plenty of rain. Prospects of crops excellent. The rain has done no harm. Jute is being cut and steeped. The crop will be a good.
		Nattore Nowgong			1.07	if not a bumper one; but prices are low. Ass is being reaped.
YR.	13	Rungpur Kurigram	"	9, 4		A break in the rains. Bright weather, with light easterly winds. All crops promise well. Jute has been cultivated this year to an extent hitherto
Di		Gaibanda Nilphamari			4·23 2·94	unknown.
BAJSHAHYE DIVE.	14	Bogra Sherpur Nowkhilla	•	9, 1	0 2.78	Weather—very damp and gloomy, with frequent showers up to the 5th instant inclusive. On the 5th sunshine has begun, which was much wanted. Transplantation of amun is going on apace. Ans is still being harvested, with good outturn. Jute is still being cut and steeped, and is an excellent crop. Common rice is selling at 19 seers a rupee.
R	15	Pubns	**	9, '	0.96	Weather—hot in the day, but cool at night. Prospects of amun and aus paddy and jute are favourable. Aus and jute on low lands partially damaged. Prices of food-grains stationary.
	16	Darjeeling	"	9, '	7.10	Weather—rainy with occasional breaks. The rain has abated, and there has been some sunny weather. Jute crop in the Terai estimated at 10 annus.
	17	Julpigoree'	**	9, *	00 1.19	Westher-close and cloudy. Transplantation of amen going on rapidly. Reaping of aus progressing. Jute growing well. Prices stationary.

N	io.	District and d	ate c	1	Rainfall at Sudder Station in inches.	
EN	IGAL	-concluded.				IN THE RESERVE AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY.
		Eastern Dist	ricts			
	18			9, '9	4.62	Weather-mostly cloudy with gleams of sunshine at intervals. Jute and as
	19	Furreedpur		9, '9		paddy being harvested. Aus has suffered to some extent owing to floor Amus paddy thriving. Price of common rice 13 to 15 seers per rupee. Weather—seasonable. River has risen higher than the last year's highest floor level, and has submerged the growing crops in the thans of Kotwal
				9, '9	0 2:17	Ainpore, and Bhanga. River is now going down slowly to the great reliof the people. Aus had been harvested for the most part before the waterose, and the damage done to it will not probably be more than four annual fute crop has been good, but its price is low, about Rs. 2-4 per mannual futerone and the solution of t
	20	Backergunge	"	, ,		has been done to amus seedlings by floods. Common rice selling at about 134 seers per rupee.
l	. 21	Mymensingb	•	9, '9	0 2.14	Usual monsoon weather with slight rainfall. In the Tangail subdivision to crops are being damaged by high flood. In other parts of the district propects continue favourable on the whole. Common rice sells at 13 set 9 chittacks per rupee.
	22	Chittagong	n	9, '9	0 5.36	Weather—seasonable. Prospect of aus fair. Lands are still being prepar for amun. Bice selling at 16 seers per rupee.
CHITTAGONG DIVE	23	Noakholly		9, '9	0 3.12	Weather—seasonable. Aus crop is being reaped and harvested. Transplant tion of amun going on. Price of amun rice 13 seers and of aus rice seers per rupee at Feny subdivision.
CHILL	24	Tipperab	,,	9, '9	0 2.54	Weather—seas mable. Aus paddy is being cut. Prospects of amun paddy go Jate cutting and steeping going on. The flood is high at Brahmanberi. No injury to paddy crop has been yet caused.
	25	Chittagong Hill Tracts.	,,	8, '9	7.04	Weather—cloudy and rainy throughout the week, except on the 2nd. Ea jum paddy ripening. Cotton progressing. Transplanting on low lat commenced. Common rice being sold at 12 seers 5 chittacks per rupee.
		Hill Tipperah				Report not received.
E	HAR.	Committee of the Commit		0 11	0.70	Weather-bot. Transplantation of paddy continues. Prospects of bhadoi cr
	26	Patns Barh Behar Gya	"	9, 1	2·16 3·47	not favourable owing to excessive rain. Much injury reported to have be done to them in the Barh subdivision. Prices of food-grains stationary. Weather—hot and cloudy. Transplantation of paddy going on. Bhat injured by excessive rain. Sugarcane doing well. Prices of food-grains stationary.
54						almost stationary.
	28	Shuhubad Buxar	**	9, '8	0 5.92 4.32 1.41	Weather—cool and stuffy alternately; some sunshine. Bhadoi is almost all guin the Sudder and Buxar subdivisions, and partially damaged in the Sasser and Bhabush subdivisions. Prospects of paddy good. Prices stationary.
		Sasseram Bhabuah			1:34	Bright sunshine in the latter part of the week. Prospects of the bhadoi is
FATSA DIVE.	29	Durbhunga Madhubani	,,,	9, '9	4.11	aghasi crops continue favourable except where damage has been done floods. A break in the rains for a few days would do good to the cro Indigo manufacture still going on. Prices remain stationary.
4	80	Mozufferpur Hajipur	•	9, '9	0 5·64 3·13	A good deal of rain has fallen during the week, but there have been two cledry days, which have effected some improvement in the prospects of crops. The Bur Gundak which has overflowed its banks, and sumerge considerable area of crops, is now falling. The name of done by floods in parts of the district is less serious than in the past year.
	31	Sarun		9, '8	2.88	Weather—finer with some sun. Bhadoi crops almost all gone for want of and from excessive rain. Heavy floods have seriously damaged the analysis of the serious bestated.
	32	Chumparun Bettiah	,	9, '9	2·22 3·58	Weather—cloudy off and on; hot with east wind. Surahine after heavy of continuous rainfall has been beneficial to the bhadoi crops, some of when have been damaged to some extent. Transplantation of paddy nearly continued by the bad and the surahine of first cutting finished.
	f 33	Mongbyr	,,	9, 4	0.75	Easterly winds, less rain and more sun. Floods have damaged the bhados creations along the Ganges. Indian-corn promises well.
	34	Beguserai Bhagulpur		9,	2·00 1·21	Weather clear. Slight rain. Previous heavy rain and rising of the ri- have done some damage to marua and makai. Prospects of paddy good,
HAN.	1	Banka Mudhepura Soopool			3·08 2·52 2·11	there has been sunshine for the last 3 or 4 days.
BRAGULFORE DIVE	35	Purneah Kishengunge Arrareah		9, '	90 1·12 7·24 4·92	prospects. Jute harvest also commencing, but some damage done by cessive rain. Transplanting of winter rice continues. Some injury done is the north-past and centre of the district.
Виа	36	Maldah Shibgunge Gajole	,,	E W	90 2·30 2·33 3·43	Weather—hot and cloudy with occasional showers. Bhadoi is being harvest A great deal has been damaged by inundation. Transplantation of wire ground on This crop also has suffered to some extent from inundation.
	1				90 6.56	Jute is being cut. Common rice setting at from 17 to 17 seers per rupes
	37	Sonthal Pergha. Deoghur			. 2.30	excellent. Makai somewhat damaged by excessive rain, and a good deal
		Godda Jamtara Pakour			1·12 5·23	
		Rajmehal	514		4-75	

No.	District and date of return.	Rainfall at Sudder Station in inches.	
1884			
\$8	Cuttack Aug. 9,	'90 1.89	Rainfall during the week quite insufficient. Transplanting of sarad paddy in many places interfered with for want of sufficient rainfall. In Binjharpur Chakla of the Jajpur subdivision, sarad paddy has been attacked by insects.
39	Paoree " 7, Khoorda Banpur	'90 1·29 0·79 3·34	Weather—seasonable. Puddling, weeding, and transplanting of sarad rice crop going on. Beali or early rice in ear. Miscellaneous crops doing well Prices of common rice vary from 18 seers 6 chittacks to 21 seers per rupes in the Sudder subdivision.
40 OTA	Balasore " 9, NAGPORE.	'90 2:65	Weather—more seasonable than in previous week. Crops suffered from wan of rain in the latter part of July. Prospects somewhat better now. Number of coolies on relief-works 38.
Sou	th. West Frontier Agency.		
41	Hazaribagh Aug. 9,	'90 2.62	Weather—seasonable; fair at intervals. Moderate rainfall. Transplantation of paddy progressing vigorously. All crops doing well except Indian-corn which has been damaged by excessive rain. Prices about stationary.
42	Lohardugga 9. Palamow (up to 4th As		Weather—seasonable. Transplantation of winter rice is being carried on active ly everywhere. Prospect of bhadoi crop continues good. No materia change in prices.
43	Singbhoom Aug. 9,	90 0.78	Rain holding off too long. Heavy rain urgently needed. Rice crop suffering for want of sufficient rain. Bhadoi crops are, however, in very satisfactory condition. Rice selling at from 16 to 24 seers per rupee except at Mana harpur in Sarandha, where it has risen to 12 seers per rupee.
43	Manbhoom ,, 9 Govindpore	'90 0.69 0.70	Weather—seasonable. Slight rain fell during the week, but it is not unfavour able to the crops. Transplantation about three-fourths fluished. Prospect of crops good. Ordinary rice selling at from 15 to 20 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT., The 12th August, 1890. P. Nolan, Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

					STOC	K IN HAND AS	COMPILED ON-						
NAMES OF MALTS.	1st week of August 1889.	1st week of Sept. 1889.	2nd week of Oct. 1889.	1st week of Nov. 1889.	1st week of Dec. 1889.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar, 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 189
是不是是这种是	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Más.
Baliaghatta	7,33,700	6,62,000	5,06,000	4,54,000	2,96,590	3,00,000	5,48,000	9,31,100	15,22,500	10,94,000	9,85,590	7,54,000	6,42,000
Ooltadanga	78,700	74,400	71,900	67,400	55,400	63,400	83,900	1,02,500	1,12,500	86,600	84,700	74,900	67,800
Chitpore, Golsbaree, Coomer- tooly, Hatkhols, and Culpy Ghat.	6,97,700	5,76,300	6,74,100	6,33,300	5,86,000	6,00,400	5,98,900	5,83,800	5,91,600	5,37,800	4,79,200	4,96,100	5,10.500
Pathuriaghatta, Posta, and Jorabagan.	3,000	4,000	5,000	8,000	3,000	4,000	5,000	4,000	3,000	4,000	3,500	4,000	3,009
Fallygunge, Chitlah, Kidderpore, and Moonshigunge.	1,10,700	72,500	64,550	65,200	68,100	82,750	98,100	1,21,500	1,26,550	1,32,900	1,19,450	1,04,700	96,000
21 Minor Bazars (estimated)	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000	2,40,000
Other retail shops, 5,129 in number (estimated).	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000	2,50,000
Boidyabatty, Newabgunge, Bhuddressur, and Chander, nagore,	18,117	14,265	14,582	13,410	14,080	28,425	19,606	33,469	81,225	19,369	22,762	45,879	55,887
Total	21,30,917	18,93,465	18,25,932	17,31,310	15,13,080	15,68,975	18,43,506	22,66,369	28,77,375	23,64,669	21,85,112	19,69,579	18,65,187
On Railway premises on both sides of the river.	4,179 (on Srd Aug. 1889.)	9,606 (on Srd	8,208 (on 3rd Oct.	14,011 (on 3rd Nov. 1889.)	6,677 (on 3rd	28,007 (on Srd	26,935 (on 3rd Feb. 1890.)	47,988 (on 3rd Mar, 1890.)	24,996 (on 3rd Apl. 189).)	24,633 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	15,533 (on 3rd July 1890.)	2,371 (on 3rd August 1890.)
on boats un- By Port Com- missioners' re- turns.	1,32,232 (1st to 3rd Aug. 1889.)	Sept. 1889.) 25,330 (1st to 3rd Sept. 1889.)	1889.) 17,852 (5th to 7th Oct. 1889.)	21,324 (1st to 3rd Nov. 1889.)	Dec, 1889.) 29,650 (1st to 3rd Dec, 1889.)	Jan. 1896.) 61,641 (2nd to 4th Jan. 1890.)	68,796 (1st to 3rd Feb, 1890.)	(1st to Srd Mar. 1890.)	S7,745 (1st to 3rd Apl. 1890.)	30,197 (1st to 3rd May 1890.)	24,756 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)	54,778 (1st to 3rd August 1890.)
By Canal returns	29,345 (1st to 3rd Aug. 1889.)	19,881 (1st to 3rd Sept, 1889.)	45,922 (5th to 7th Oct. 1889.)	14,718 (1st to 3rd Nov. 1889.)	8,835 (1st to 3rd Dec. 1889.)	1,31,815 (2nd to 4th Jan, 1890.)	2,42,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	58,619 (1st to 3rd Apl. 1890.)	23,975 (1st to 3rd May 1890.)	23,957 (1st to 3rd June 1890.)	22,388 (1st to 3rd July 1890.)	18,546 (1st to 3rd August 1899.)
Grand total of Stocks	22,96,673	19,48,282	18,97,914	17,81,363	15,49,249	17,90,438	21,81,281	25,05,503	29,98,735	24,43,474	22,45,752	20,30,851	19,40,883
Probable stock available for exportation by sen.	12) lakhs	9 lakhs	8½ lakhs	7½ lakhs	5 lakhs	7½ lakhs	11½ lakhs	14 lakhs	19‡ lakhs	14 lakhs	12 lakhs	9½ lakhs	9 lakhs

STATISTICAL DEPARTMENT, The 11th August, 1890. P. Nolan, Secy. to the Goet. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

				w	HEA	T.			В	BLEY.			B	ICE	, BE	ST S	ORT		1	RICE	, 00	мм	on.			R OR CI	
	DISTRICTS.	-	Present return.		Next preceding		Corresponding return of last year.		Present return.	Next preceding return.	Corresponding return	or last year.	Procent return.		Next preceding	return.	Corresponding return	of last year.		Present return.	Next preceding	return.	Corresponding return	of last year.	Present return.	Next preceding return.	Corresponding return of last year.
11	BENGAL.											44															
1	Estern Dipartete.	1	8. (Ch.	s. c	ь.	8. C	h.	S. Ch.	8. Ch.	8, 0	ъ.	s. (Oh.	s. (Ch.	s.	Ch.	s.	Ch.	S.	Ch.	8.	Ob	8. Ch	8. Cb.	s. Cl
1	Burdwan .	.]	14	8	14	0	13	4	1.0				12	0	12	0	11	4	14	10	14	13	13	11			
2	Bankoora .		15	0	14	0	13	8	20 0	20 0	17	8	15	0	15	0	14	8	18	0	18	0	17	4			
3	Beerbhoom .		16	8	16	8	15	θ					13	8	13	8	12	0	16	8	16	8	13	8	-		
4	Midnapore .		12	0	13	0	11	7					13	0	12	12	12	0	16	4	16	4	16	0			
5	Hooghly .		13	0	13	0	13	0					8	0	8	0	8	0	13	0	13	0	11	0			1
	Howrah			•							١.		11	4	11	4	10	0	13	4	13	4	13	4		١	
	Central Distric	ts.																									
	Calcutta		13	6	13	9	12	12	17 8	17 7	16	8	9	10	8	14	8	11	13	9	13	1	12	12	19 3	18 13	
6	24-Pergunnah		15	0	15	0	13	0	18 0	18 0	18	0	8	_0	8	0	7	0	13	12	13	12	13	4			
7	Nuddes	•	15	10	15	10	14	15	20 0	20 0	17	19	11	5	11	31	11	01	12	12	12	13	12	9	-	-	
8	Khoolna												12	4	13	0	10	10	14	0	14	4	12	5		h	
9	Jessore		13	4	13	4	13	0					11	0	12	0	11	0	15	0	16	0	13	0			
0	Moorshedabad		16	0	16	0	15	0					11	0	11	0	10	10	15	0	15	0	14	8			
1	Dinagepore		15	0	15	0	13	8	15 9	17 0	25	0	13	4	13	4	12	0	15	8	15	9	14	8			
2	Rajshahye		16	8	16	8	15	12	24 0	21 0	26	4	12	12	12	12	10	8	14	4	13	11	12	0			
3	Rungpore		13	5	13	5	14	8					9	6	9	6	10	B	13	5	13	5	14	8			
4	Bogra	•••	15	15	16	14	13	8					12	0	12	0	9	12	15	15	17	4	14	4			-
5	Pubna		18	12	18	0	15	12				1	7	8	7	0	7	8	15	6	15	0	13	8			
6	Darjeeling		8	0	10	0	10	0	9 8	9 0	6	0	5	0	5	0	5	0	9	0	9	0	11	0			
7	Julpigoree		14	0	13	0	12	0	6 0	16 0	16	0	8	0	8	0	8	0	16	0	14	0	13	0			
1	Sastern Districts																										
8	Dacca		13	0	13	0	13	0	14 0	16 0	26	U	12	0	13	0	10	0	14	0	14	0	14	0			
9	Furreedpore		15	0	15	0	16	0		20 0			100		10		9	0	15	0	15	0	13				
0	Backergunge														12	à		0		0	Mis.		12				
1	Mymensingh		11		11		10						10		10		12			6			13			5000	

A In subdivisions retail prices of salt per rupes are:—Culna 10 seers, Cutwa 10 seers 6 chittacks, and naneguings 10 seers chittacks.

At Rampore Haut retail price of salt 9 seers per rupes.

In subdivisions retail prices of salt per rupes are:—Contai 9½ seers, Tumlook 8 seers, and Ghatal 11 seers.

In subdivisions retail prices of salt per rupes are:—Serampore 11 seers and Jehanabad 10 seers 10 chittacks.

In subdivisions retail prices of salt per rupes are:—Baraset 10 seers, Basirhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, In subdivisions retail prices of salt per rupes are:—Kooshtea 10 seers, Meherpore 10 seers, Chooadanga 10 seers, and Ranaghat 9 seers 2 chittacks.

At Bagirhat retail price of salt 8 seers per rupes.

In subdivisions retail prices of salt per rupes are:—Jhenida 9 seers, Magura 9½ seers, Narail 9¾ seers, and Bongong 10 seers.

In subdivisions retail prices of salt per rupes are:—Lalbagh 9½ seers, Jungipore 10 seers, and Kandi 10 seers 10 chittacks.

				The second						e ad	-			12.00	T.P		8 16	95	25 (4)		- 40			what has en	
	ı	16 0		1	18 0		i	i	1			1	i	1		19 5			1		26 0	ı	S. Ch.	Present return.	INDIAN- MA (Zea 1
ı	1	16 0		1	11 0	1	i		1		1.	ı	•		L	18 3			i		26 0		S. Ch.	Next preceding return.	MAIZE.
i	1	20 0		1	18 0	1	1	1	1					1	1	1			•	1	19 0		S. Ch.	Corresponding return of last year.	08
10 0	12 12	10 0	12 0	12 0	8 0	18 12		10 5	19 14	15 0	18 0	18 0	1	19 0	17 0	16 8	15 4	11 0	12 4	18 8	19 0	20 0	S. Ch.	Present return.	Capasus (Cajasus
18 8	nesari, hu 12 5	10 0	15 0	12 0	8 0	18 0		10 5	19 8	14 8	18 0	18 0	1	19 10	17 0	17 0	13 0	11 0	18 0	18 8	20 0	19 0	8, Ch.	Next preceding return.	ind
10 0	sked. 11 8	16 0	16 0	10 0		17 4		12 4	18 8	18 0	18 12	18 0	ı	16 14	17 0	16 11	13 4	18 0	12 0	16 0	15 0	17 12	s, ch	Corresponding return of last year.	EA.
ı	100 0	120 0	90 0	200 0	120 0	200 (90 (100 0	240 0	168 0	200 0	160 0	160 0	1	100 0	92 8	100 0	120 0	120 0	160 0	240 0	100 0	s. ob.	Present return.	
	120 0	120 0	160 0	200 0	120 0	200 0	90 0	100 0	240 0	170 0	200 0	160 0	160 0		100 0	92 8	100 0	120 0	120 0	160 0	240 0	100 0	s. ch.	Next preceding return.	FIREWOOD
	190	0 120	001 0	128	150	200	88	120	240	160	200	160	100		100	100	100	120	160	160	240	107	s. Q	Corresponding return of last year.	DATE OF THE PARTY

Head-quarter Station Bazars of the Districts of Bengal on the 31st July, 1890.

							JN.	DC	F 4				A	VERA	GE W	AGES	PER M	ОМТН	t.		
	SALT.					SAI	or.					AGI	LE-BOI RICULT ABOUR	URAL	Syc	E OR H		CAT	MON M RPENTE	R, OR	
Present return.	Next preceding return.	Corresponding return of last year.		Present return.		Next preceding	rn.		Corresponding return	or man year.	Donney Labour	riesenvieturu.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	DISTRICTS.
la Cr	S. Ch.	IS Ch.	Ra		P.	Re.		p li	te. 4		(Re		IRe. A.	IRs. A.	IRe A	I Rs. A	IRs. A.	I Rs. A	IRa. A	l Ru a	BENGAL. Western Districts.
At	10-6-31	t	AE.	8	9		9		3 11		8	0	8 0	8 0	6 0	6 0	6 0 {	10 0 to 15 0 9 0	10 0 to 15 0 7 8	10 0 to 15 0 }	470000000000000000000000000000000000000
10 4 10 8		10 0	3	15	0				3 15		11	2 0	to	to 7 15 5 0	to	8 0	9 to	to 16 0 12 0	to 16 0 7 8 to	to	Bankoora.
10 ° 2		10 6	8 1			3 1			3 13				6 1	7 8	6 0		6 0{	7 8 10 0	10 0 7 4 to 10 0	7 8 to 10 0}	
9 0	9 0	9 0				3 1		1	3 11			6	9 13 <u>1</u>	9 13	{6 to 6 0	}6 o{	7 0 (8 0 to 40 0	8 0 to 30 0 12 0	10 0 to 80 0 12 0)	Hooghly.
10 0	10 0	10 8	3]	11	6]	3 1	1	0 8	9	6	{11	98	to 15 0 Coolies		to	7	7 0}	25 0	25 0	25 0 }	Howrah, Central Districts.
10 7	10 7	10 10	3	9	3	3	9	4 8	8	0	8	0	8 0	8 0	6 0	6 0	6 0	15 0	15 0	15 0	Calcutta.
10 0	10 0	10 8	8	8	0	3	8	0 8	8	9		0	to	10 0 to 11 0	6 0 to 7 0	6 0 to 7 0	6 0 to 7 0	${ $	25 0	15 0 to 25 0}	24-Pergunnahs.
9 13	9 13	9 2	3 1	13	0	3 1	3	0 8	14	0		8	7 8	6 0	6 0	6 0	6 0	{ to 15 0	to	7 8 } to 15 0 }	Nuddea.
9 0	8 0	9 0	4	4	0	4	8	0 4	0	0	{7 t 9 t	0	7 8 to 9 6	7 8 to 9 6	7 0 to 9 0	7 0 to 8 0	to 8 0	to	12 0 to 25 0	12 0 to 30 0	Khoolna.
8 2	9 2	9 2	4	0	0	4	0	0 4	0	U	{ t	0	5 0 to 7 8	5 0 to 7 8	to 6 0	4 0 to 6 0	4 0 to 6 0	to	10 0 to 15 0	10 0 to 15 0	Jessore.
10 10	10 10	10 0	3 1	12	0	3 1	2	0 8	10	3		8	{5 10 to 7 8	7 8		5 0	5 0	10 0 10 0 10 0	5 0	7 8 } to 10 0 }	Moorshedabad.
10 0	10 0	10 0	4 .	0	0	4	0	0 8	15	0	7	8	7 8	7 8	6 0 to 8 0	6 0 to 8 0	to	10 0 to 15 0		$10 \ 0 \ to \ 15 \ 0$	Dinagepore,
9 0	9 0	9 0	4	2	8	4	2	8 4	1	4		0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0	4 0 to 6 0		8 0 to 16 0	8 0 to 16 0	Rajshahye.
9 6	9 6	9 6	4	4	0	4	4	0 4	4	0	5	0	7 8	5 0	6 0	6 0		20 0	10 0 to 15 0	10 to 20 0	Rungpore.
9 0	9 3	9 12	4	2	8	4	2	8 3	14	0	7 8	{	6 0 to 7 8	6 0 7 8 5 0	5 0 to 7 0	to 7 0	7 0	to 20 0	10 0 to 20 0	10 0 to 20 0	Bogra.
8 111	8 113	9 21	3 1	5	0	3 1	5 (0 8	15	0	{5 t	0 8	5 0 to 6 8	to 8	6 0 to 8 0	6 0 to 8 0	6 0 to 8 0		7 0 to 20 0	7 0 to 20 0	Pubna.
6 8	8 0	7 0	6	0	0	5	0	0 5	0	0	> t	000	60	{7 0 to 8 0	8 0 7 0 to 10 0	8 0 to 9 0	7 0 to	11 0 to 20 0	12 D to 25 0	12 0 to 22 0	Darjeeling.
9 0	9 0	9 0	4	4	0	4	2 (0 4	2	0	7	8	7 8	7 8	9 0		9 02	to	15 0 to	15 0 to 20 0	Julpigoree.
												1									Eastern Districts.
P 8	9 8	10 0	4	2	0	4	2	0 8	15	0	3 1	10	6 0 to	to	8 0 to 12 0	7 0 12 0	7 0 to 12 0	to	10 0 to 20 0	8 0 } to 20 0}	Dacea.
10 0	16 0	9 0	3 1	4	0	3 1	4	0 4	0	0	10	0	10 0	7 8	10 0	10 0	7 0	15 0	15 0	15 0	Furreedpore.
10 Q	10 3	10 0	4	0	0	3 1	5	0 8	14	0	9	8	7 8	9 8	6 0	6 0	8 04	12 0 to 15 0	10 0 to 15 0	12 0 to 15 0	Backergunge.
9 8	9 .8	9 12	4	2	0	4 :	2	0 4	0	0	{ 10	0	7 8 to 9 0	7 8 to 9 0	6 0 to 7 0	6 0 to 7 0	6 0	12 U	19 0 to	12 0 to 30 0	Mymonsingh.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

		1		,	VHEAT	,		1		Вл	RLE	γ.			R	CE,	BES	T S	RT.			Rici	e, c	OM	MON		Jowas (Soro	R OR CI	HOLUM
		-		1	20.24		£	1		1	200		E					tion of the							30		(Gury		roturn
TA CONTROLL	DISTRICTS		Present return.		Next preceding return.		Corresponding return of last year.		Present retura.		Next preceding	return.	Corresponding return	of last year.	December parties.	Trosper Amount	Next preceding	rm.	Corresponding return	of last year.	December volum.	100000000000000000000000000000000000000	Next preceding	return.	Corresponding return	of last year.	Present return.	Next preceding return.	Corresponding rel
as	tern Districts	-001	B. C	d.	8. 0	7h-1	8. 0	h.	s, o	ь.,	3. C	ъ.	s. c	h.	s. (Ch.	s.	Сb.	s. (Ch.	s. (Сь.	s. (Ch.	8.	Ch.	S. Ch.	S. Ch.	8. C
2	Chittagong		11	0	11	0	10	0							12	0	12	0	10	0	15	0	15	0	12	8		-	-
3	Noakholly*																14	0	12	0			15	0	14	0			-
4	Tipperah		14	ř	13	141	12	0							8	14	10	0	13	0	13	143	13	141	14	0	-		
5	Chittagong I Tracts. Hill Tipperal	300	6	SOR			6	0			5.				11 8	6ª 0	10	10)	9		12 15	5		63	100	0	-	-	-
6	BEHAR.		(17	12	Re 17	d.	١	7	lor	•	100	8	21	0	10	8	10	8	10	0	16	12	16	7 1	18	8	19 0	22 0	17
7	Gya		16	12	Wh 16 16		16	05	24	8	23	0	18	0	10		11	8	W.		134	8		EV)		8			
8	Shahabad	***	15	8	16	0	14	烷	21	0	20	0	17	0	8	0	9	0	9	0	15	0	14	0	12	8			
9	Durbhunga		15	6	15	6	15	5	19	12	20	14	18	8	12	0	13	0	9	2	15	6	15	6	13	6	20 14	-	10
0	Mozufferpore	·	17	0	17	0	14	0	21	0	22	0	16	0	11	0	9	0	9	0	15	0	14	0	11	0			
1	Sarun		16	4	16	4	14	8	21	8	21	4	17	8	8	8	8	8	8	4	14	0	14	8	11	2		-	-
2	Chumparun	***	17	0	17	0	13	8	25	0	23	0	15	8	8	0	8	0	8	0	14	12	15	0	19	0	•		-
3	Monghyr		18	6	18	6	16	12	23	1	22	0	17	14	13	38.0	12	9	10	8	15	12	15 Old	200	11	14	,	-	-
4	Bhagulpere		17	11	17	11	15	12	21	7	21	7	17	10	10	11	(10 ow.	10	10	11	13	0	18 Ne	14	12	dire	}	-	-
5	Purneah		18	0	18	0	14	0							15				11			0		925-0	13	27,40		-	-
6	Maldah		19	0	18	8	15	8				•		•	12	0	12	0	10	0	15	0	14	0	12	8		-	
7	Sonthal Perg	hs.	14	0	14	0	12	8					١.	•	13	0	13	0	12	8	16	0	16	0	14	8	••		١
8	Cuttack		15	12	14	7	11	13		Š			1	7	10	8	10	8	10	8	17	14	15	12	14	7	"		1
9	Pooree		10	8	10	8	9	5							11	13	13	2	10	8	17	12	17	1	14	7	-		-
0	Balasore		15	0	15	0	16	0	13	0	18	0	13	0	12	0	11	0	13	0	19	0	16	0	17	0	-	-	۱
	CHOTA N.																												
1	South-West Fre		{15 14	0	14 16	0	} 12	0	18	0	18	0		•	9	0	9	0	8	0	16			327		0	"	-	1
2	Lohardugga		1 8	12	14 1 W1		10		}11	50			8	8	14	0	14	0	12	0	19	01	Coa 19	o i	14	1			
3	Singbhoom		10	8		0	8	0	16	0	20	0	20	0	16	0	16	0	16		19	0 1	9	0	120	0			5.4
4	Manbhoom		13	0	14	0	12	0	1.	10		SH	300		12	0	12	0	11	8	17	0	18	0	14	0	***		

CALCUTTA,
The 12th August, 1890.

^{*} Present return not received.
† Price of common rice at Jajpore and Kendrapara 21 seers per rupee.
† Ditto in the Khoorda subdivision 20½ seers per rupee.

At Cox's Bazar rotail price of salt 8 seers per rupee.

In subdivisions retail prices of salt per rupee are:—Aurungabad 9½ seers and Nowadah 8½ seers.

U In subdivisions retail prices of salt per rupee are:—Buxar 10 seers, Sassoram 10½ seers, and Bhabuah 9½ seers.

V In subdivisions retail prices of salt per rupee are:—Madhubani 10 seers and Somastipore 11 seers.

MARUA OR RAGI. (Eleusine Corocana.)

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (Cicer arietinum.)

														50 F 45/L	A STATE OF THE PARTY OF THE PAR	OF THE PARTY OF	25K273EU	F-15-4401		112	Section 198	32 (29 F)	and the same	THE RESERVE	65/1-204.57	
				1				1	115	1	1		1					1	1			1	1	5-14	s. Ch	Present return.
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1	1	40 0	28 0	1				1	1	1		1		22 0		24 0	1	i	25 0	_		i	1	1	S. Ch	Next preceding return.
	1	30 0	21 0			1.	•	- I	1			1	17 0	1		17 2	i		ī	7			1	ļ, ,	s, ch	Corresponding re- turn of last year.
		•	1	i		•	•	1	1	i	1	21 0	ı	16 0	1	Rin	1	15 0	18 0	1			1		S. Ch	Present return.
1	1	1	1			1			. 1	1	1	11 11	1	16 0	17	1	1	15 8	19 0	1		1		1	S. Ch.	Next preceding return.
1	1						-	71	1	1	1	1	ı	10 0	1	•	ı	П 0	14 0	-	1	1	ı		S. Ch.	Corresponding re- turn of last year.
17	16	18	6	5		14	H	18	22	88	83	24	15	22	20	13	22	19	21	12		9		12	ço	
0	0	00	00	•	•	6	14	0	0	0	Ct	25	00	4	0	0	0	0	00	0	•	10		0	Ch.	Present return.
17	14	14	16			11	-	18	22	88	22	24	22	21	20	13	28	20	21	12		10	12	12	-Si	Next preceding re-
*	0	*	00		>	0	7	0	.00	0	F	14	0	4	0	0	0	0	0	0		10%	0	0	9	turn.
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0	0	00	00	•	1-0	10	6	0	0	300	10	14	0	9	0	4	0	on	0	0		0	0	10	9	turn of last year.

0.535550	100	THE SHEET	HERO SE						45350	2000		-	10000		1000				1000		-		-		1
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	20 0	1	22 0	,	,	1	20 0		1	22 11	21 0	į	1	20 - 0	22 0		1	1	1	1	1+		1	S. Ch.	Next return.
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18 0	22 0	Big. 20 0 Small 27 0	20 0	1	18 2	81 0	21 0	i	15 0	21 7	21 0	21 0	21 4	21 0	20 14	20 0	20 0	22 8	8 0	1	8 0	8	1	S. Ch.	Next return.
14 0	12 0	# # # # # # # # # # # # # # # # # # #	15 0	1	14 7	16 12	19 0	,	:	17 10	17 18	16 8	19 12	18 0	18 4	13 0	17 0	21 0	8 0	1	9 0	8 0		S. Ch.	Correspond of last y
200 0	240	120	390 0	160 0		80 0	200 0	160 0	130 0	126 4	147 0	160 0	160 0	160 0	160 0	120 0	200 0	120 0	ı	320 0	1		110 0	S. Ch.	Present r
200	240	0 120	390	160 0	80	80 0	200 0	120 0	130 0	126 4	168 0	160 0	160 0	160 0	180 0	120 0	200 0	120 0		320 0		1	110 0	S. Ch.	Next return.
0 200	200	0 140	0 390) 160		88	200	160	120	164	126	160	160	160	140	120	200	180	1	320			100	S. Ch.	Corresponded for last
0	0	0	•	0	0	•	•	•	0	0	0	0	0	•	0	•	9	0		0			0		

Present return.	180
Next preceding return.	MAIZE. Zea May
Corresponding return of last year.	E OF
Present return.	Co.
Next preceding return.	IAR OR THE
Corresponding return of last year.	EUR.
Present return,	
Next preceding return.	FIREWOOI
Corresponding return of last year.	,

AVERAGE WAGES PER MONTH.

Station Bazars of the Districts of Bengal on the 31st July, 1890-(concluded).

WHOLESALE PRICES | PER MAUND OF 40

	PER MAUND OF 40 SEERS.	AVERA	GE WAGES PER M	IONTH.	
SALT.	SALT.	ABLE-BODIED AGRICULTURAL LABOUERR.	SYCE OR HORSE- EREPER.	Common Mason, Carpenter, on Blacksmith.	
Present return. Next preceding return. Corresponding return of last year.	Present return. Next preceding return. Corresponding return of last year.	Present return. Next preceding return. Corresponding return of last year.	Present return. Next preceding return. Corresponding return of last year.	Present return. Next preceding return. Corresponding return of last year.	DISTRICTS,
s. Ch. S. Ch. S. Ch.	Rs. A. P. Rs A. P. Rs. A. F.	Rs. A. Rs. A. Rs. A.	Rs. A. Rs. A. Rs. A.	Rs. A. Rs. A. Rs. A.	Districts—concluded.
9 0 9 0 10 0	3 14 0 3 14 0 3 14 0	9 0 10 8 8 0	7 0 8 0 8 0	$12 \ 0 \left\{ \begin{array}{c c} 9 & 8 & 9 & 4 \\ to & to \\ 12 & 0 & 12 & 0 \end{array} \right\}$	Chittagong.
9 0 9 0	4 8 0 4 0 0	to to to	5 0 5 0 5 0 to to to to 6 0 7 0 6 0 1	5 0 8 0 8 0 to to to to	Noakholly.
9 69 9 11 9 0	4 4 0 4 2 0 4 4 0	7 0 7 0 7 0 to	6 0 7 0 7 0 to to to	8 0 8 0 8 0 to 5 0 15 0	Tipperah.
8 0 8 0 8 0	4 8 0 4 8 0 5 0 0 1		Not procurable.	20 0 20 0 20 0 to to 0 30 0 }	Chittagong Hill Tracts.
8 0 8 0 8 0 1	4 6 0 4 6 0 4 6 0	8 0 8 0 8 0 6			Hill Tipperah. BEHAR.
10 0 10 0 9 8	3 11 6 3 13 0 3 12 6	to to to	4 8 4 8 4 8 to 5 0 5 0	$ \left\{ \begin{array}{c c c} 7 & 0 & 7 & 0 & 7 & 0 \\ to & to & to & to & 0 \\ 8 & 0 & 8 & 0 & 8 & 0 \end{array} \right\} $	Patna.
9 0 9 2 9 2	4 1 0 4 1 0 4 2 0	2 8 2 8 2 8 to to	3 0 3 0 3 0 to	6 0 6 0 6 0 to 8 0 8 0 8	Gya.
10 U 10 0 10 0	3 15 0 3 15 0 3 15 0	5 0 5 0 5 0	1 0 4 0 4 0 to	6 0 6 0 6 0 to 7 8 7 8 7 8	Shahabad.
11 0 11 0 10 13	3 8 0 3 8 0 3 11 3 4	(3 12 3 12 3 12 5 to to to	to to to	3 1s 3 12 3 12 10 to to 9 6 9 0 9 8	Durbhunga.
W 10 0 10 0 10 0	4 0 0 4 0 0 3 12 0	3 12 to 3 12 3 to 5		5 10 7 8 5 0 to to to	Mozufferpore.
E VENT	4 0 0 3 14 6 3 14 0	5 10) (5 0 4 3 12 3 12 8 12 4 to to to	8 4 0 5 0 1	1 4 9 6 8 0 6 9 to to to to	Sarun.
x	3 14 0 3 12 0 4 0 0	7 8 7 8 7 8 7 8 2 13 4 4 to to to	0 7 0 7 0 1		Chumparur.
Y 9 15 9 14	3 10 0 3 13 0 4 9 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 8 0 6 0 8	9 6 9 6 9 6)	Monghyr.
10 1 10 1 10 1	3 15 6 3 15 6 3 12 0 4 4 7 0 4 7 0	7 8) (5 0 5 11 (3 12 3 12 4 to 10	0 4 0 5 0 11 0 4 0 3 8	5 0 8 0 12 0 5 7 8 7 8 7 8 to to to	Bhagulpore.
Z 9 9 9	4 7 0 4 7 0 }	5 10 5 10 4 11 4 to to	0 5 0 5 0 to to to	0 6 11 4 11 4 7 0 7 0 to to to	Purneah.
9 0 9 8 9 0	4 2 0 4 1 0 4 7 0	6 9 6 9 5 10 5	0 5 0 5 0 1 0 5 0 5 0 1	6 0 16 0 18 0) 8 0 8 0 10 0 1 to to to	Maldah.
9 8 9 8 9 0	3 14 0 3 14 0 4 3 0 3	3 12 3 12 3 12 5	5 0 5 0 5 0	2 0 12 0 15 0 7 8 7 8 7 8 to to to to	Sonthal Perghs.
				9 6 9 6 9 6)	ORISSA.
8 0 8 0 11 0	4 7 0 4 7 0 3 12 0	5 0 5 0 5 0 4	8 4 8 4 8	to to to to 7 8 7 8 7 8	Cuttaok.
11 0 10 0 9 13	3 7 0 3 7 0 3 12 0 7	8 to 6 0 5	0 5 0 5 0 6	to to to 0	Pooree.
10 0 10 0 19 0 1	4 7 0 4 7 0 3 12 0 3 7 0 3 7 0 3 12 0 7 3 14 0 3 14 0 4 0 0 6	to to to 5 0 6	to to to 10	to 0 10 0 10 0}	Balasore.
				СНОТА	NAGPORE Frontier Ages cy.
88888804	4 8 0 5 4 0 4 8 0 4 8 0 4 8 0 5 4 0 4 8 0 5 8 0 8	0 4 3½ 3 12 5 2 13 3 4½ 3 4¼ 3	0 to 5 0 8	0 7 8 8 0	HazaribagL.
9 0 8 12 7 8	4 8 0 5 4 0	to 3 12 3 12 5	to 6 0 6 0 9	6 14 1 14 1	Lohardugga.
70	THE RESIDENCE OF THE PARTY OF T		0 4 0 4 0 12	0 12 0 12 0 1 6 13 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	Singbhoom.
	0 0 4 0 0 4 6 0 4		('8	12 15 0 5 0]	Wanbhoom.
X At Bettiah retai	retail prices of salt per rupe il price of salt by secre per r retail prices of salt per rupe	upee. are :—Beguserai 91 s	eers and Jamui 9 see	TS.	
Z In subdivisions : Z1 In the Khoorda 22 At Bhudruck re	retail prices of salt per rupee subdivision retail price of sa stail price of salt 9 seers per	are: Kishengunge 8 It 9 seers 6 chittacks propae	seers and Arrareab (at Rancogunge) 10 s	soers.
Z3 At Govindpore	retail price of salt 9 seers per	rupee. ieu tor general i	nformation.	P. NOLAN	
			Sec	ey, to the Govt.	
TRANSPORT	WAR TO BE THE STATE OF THE STAT		The state of the s	图 7	

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

		L			ł																	K									M									
						w	HE	AT.								В	ARI	EY						A 18	Ric	в, ві	ST	SOR	r.		33.50			R	CE,	CON	IMO:	N.		1
Number.	MARTS.		Descent wateren	Tesent veenus			Next preceding return.				Corresponding return	of last year.		Present return.	· 大学 (100 mm) (100 mm)	T		Next preceding return.		Oursement ding setum	of last year,			Present return,			Next preceding return.		1	of last year.	STREET, STREET		Present return,			Next preceding return.	A SHOUSE OF THE STATE		Corresponding return of last year.	
		1	2.	۸.	P.	1		. 1		R.	۸.	P.	1	٤. ،	, P		R.	4.	P.	R.	۸.	P.	R		Р.	R		P.	K.		P	K		P.	R		P.	R	. 4.	P.
1	Calcutta		2 1	1	8	-	2 1	ı	2	2	14	4	1	2 (7		2	1	1	2	3	0	3	14	4	4	3	70	4	5	10	2	11	4	2	13	1	2	14	4
2	Serajgunge		2	2	0	5	1	1	0	2	1	0											4	8	0	4	8	0	3	13	0	2	8	0	2	12	0	2	7	0
3	Dacca		3	0	0	2	3 ()	0	3	0	0	2	12	. (2	7	0	1	8	0	3	4	0	3	0	0	4	0	0	2	13	0	2	13	0	2	12	0
4	Naraingunge																			3			2	18	0	3	0	0	3	0	0	2	9	0	2	14	0	2	12	0
5	Chittagong	9		8	0	900	ed.	1	0	3	12	0											3	4	0	3	4	0	4	0	0	2	10	0	2	10	0	3	3 0	0
6	Patna	\{\begin{align*} 2 \\ 2 \\ 2 \\ 2 \end{align*}			6	Wh	4	•		2	7	0	},	1 4) (,	1	10	6	1	13	6	8	12	0	3	12	0	3	14	0	2	5	6	2	6	0	2	2 14	6
7	Balasore	2		8	0	2	8		0 1	2	6	0	1	. () (,	8	0	0	8	0	0	8	4	0	3	8	0	3	0	0	2	0	0	2	6	0	2	2 5	0
8	Pooree							4								1						0									100	2	4	0	2	4	0	2	2 6	0
9	Cuttack	1 2		5	0	60	10)	0	3	4	0			No.								8	10	0	8	10	0	3	10	0	2	2	0	2	5	0	8	3 10	0

CALCUTTA,
The 12th August, 1890.

		PR	ICES I	PER M.	AUND										
	OR CHO														
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.										
R. A. P.	R, a. P.	R. A. P.	R.A.P.	R.A.P.	R.A.F.										
1 13 5	1 14 1		2 12 1	2 14 0	3 4 0										
•••															
				-											
			-	-											
2 1 0	1 12 0	2 5 3		0.71	177										
		-													
***					***										

1694a

OF 40 SEERS.

MARUA OR RAGI.
(Eleasine Corocana.)

KANGNI OR KAKUN, ITALIAN MILLUT. (Setaria italica.)

Next preceding return.
Corresponding return of last year.
Present return.
Next preceding return.
Corresponding return of last year.

16946

in the undermentioned Marts of Bengal on the 31st July, 1890.

G	K.	M, ADA (Ci	Mid	AY	OI	1 5	U	NA	GA	Δ,	1	I	NDI		-co Zea					IZE.				-	CAL	DJ.	AN	PE	UR A.						FII	REV	700	D.							2	SAL	л.				İ	
	Present return.				Next preceding return.			Corresmonding return	of last year	or resce year.			Present return,			Next preceding return	0		Common ding a farm	of last year.			Present return.				Next preceding return.	CANCELL AND RESULT	Comment 11	of last year		in the second	Present return.			Next preceding refurn			Corresponding return	of last year.			Present return.			Next preceding return.			Corresponding return	of list yetr.	Control of the last of the las	MARTS,
R.	Δ	. P.	1	ĸ.		P	-	k.		P.	-	R.	۸.	P.	R	. 4	. 1		R.	A .	P.	k.		. P		R.	٨.	P.	R		P	R	. A	P.	R		. P		R.	۸.	P.	R.	۸.	r.	R		. Р	i	. a	. 1		
2	0	6	1	2	1		3	2	6	10)	1 :	13	0	1	14	1	2-		•		2	2		8	2	1	7	2	2	10	0	5	•	0		5 1	,	0	5	6	3	9	8	3		,	1	3	8	0	Calcutta.
2	6	0)	2	8		0	2	9	()				No. 1					•••	1000																				000143	3	12	0	3	1:	2 () ;	3 1	4	0	Serajgunge
3	0	0		3	0	ŀ	0	2	12	(0											3	4		0	3	0	0	2	6	0	0	6	(0) ,	4	0	0	4	0	0	4	0	4		2 () ;	3 1	5	0	Dacca.
3	6			4	0	The same	0	2	8	(0									•••		3	9		0	3	12	0	3	12	0	0	8	(0	1	3 1	0	0 1	0	0	3	13	0	3	1	3 () 1	3 1:	2	0	Naraingung
3	4	(3	4		0	3	4	(0							1														0	5	4	0	, ,	5	1	0	7	0	3	14	0	3	1	1 (0 1	3 1	1	0	Chittagons.
1	13	C		1	13		0	1	15	(0								2	1	6	1	11		6	1	11	6	ı	13	6	0	5	(0		5 (3	0	5	0	8	11	6	3	1	3 (0 1	3 1	2	6	Patna.
2	12	0	1	2	12	•	0	2	12	()		•••					1							-			St. C.				0	4	6	0			5	0	4	6	8	14	0	3	1	1 (0	1	0	0	Balasore.
Salehor 3			-											10		••	9-0-1	-		***	10000				1		•••															3	7	0	3		7	0 1	3 1	2	0	Pooree.
2	10	0	1	2	10	1	0	2	2	(0						1	-			S. Carlo	1	10		0	1 :	11	0	2	5	0	0	8	(0	, ,	3 1	0	0	8	0	4	7	0	4		7 1	0 8	3 1	2	0	Cuttack.

Published for general information.

P. NOLAN, Secy. to the Goot. of Bengal.

Meteorological Report of the Province of

								ST	ATIO	N OR	SERVA	TIONS.		4 51	10			100
100				AIR I	PRESSU	RE.		Z		TRMPE	RATUR	R.		HUM	DITY.	CL	OUD.	100
	DISTRICT.	Representative stations,	Highest, 8 A.M., barometer read- ing of month.	Lowest, 8 A.M., barometerread- ing of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of month.	Lowest of month.	Mean daily maxi- mum tempera- ture.	Mean daily mini- mum tempera- ture.	Mean daily tem- perature.	Variation from normal mean.	Mean, 8 A.M., humidity.	Variation from normal mean.	Mean clond amount, 8 a.M	Variation from normal mean, 8 A.M.	
,	,	Pooree	29.799	29.413 29.478	29°596 29°587	29.608	+.030	93.7 90.5	75.6 75.8	87:0‡ 85:2	79°5‡	83°3‡	_07	87 81	Ξ	8.6	Ξ	1
1	Pooree	False Point	29.760	29.368	29.579	29.601	013	94.2	78'1	86 4	77'4	81.9	-11	87	-1	0.0	+0.8	1
1	Cuttack	Cuttack	20-739	29.376	20.256	29'607	+*004	94.9	73'3	88.3	77'9	83'1	-11	80	-1	8.8	+1.2	1
i	Balasore	Balasore	29'667	29'402	29'524	20.583	'017	94.3	72'8	87'5	78.8	83 1	+0.1	85		5.9	7	1
1	South-West Midnapore and South 24-Pergun- nahs	Saugor Island	29.764	29.407	29.260	29'586	009	91.2	76.0	86'8	80'8	83.6	-0.2	88	-2	9.6	+1'3	
1	Midnapore	Midnapore	29*624	29.304	29.432	29.282	017	96.3	75'1	89.2	78.0	83'6	-0.5	83		4.1	-	1
	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	29.758	29.444	29.560	29.482	009	90.0	75.2	87.2	77.8	82'5	-08	88	+1	8.8	-0.8	1
Î	Burdwan	Burdwan	29'655	29:346	29.465	29.565*	'025	94.1	76'9	89'6	79.1	84'4	-0.2	85	0	5.3	-3.3	1
1	Bankoora	Bankoora	29.450	29.134	29-256	29.554	013	95.1	75.6	88.8	77-7	83'3	-0.6	87	-	7.9	-	10
1	West Burdwan}	Ranigunge	29:456	29*146	29.262	29.595	+:010	95'5	75.4	88'9	77'8	83'4	-0.7	88	-	81	-	1
-	Moorshedabad	Berhampore	29*697	29.413	29.206	29.578	-*023	92.7	74'8	88.2	77'4	83.0	-11	93	+7	9.5	0	1
	Nudden	Krishnagore	29.721	29'427	29.529	29:577	008	91.8‡	74'8‡	89.0‡	77.6‡	83 3‡	-0.6	86	-	8.4	-	生中
1	Jessore and Khoolua	Jessore	29*745	29'447	,29°558	29.292	017	92.3	76.4	88'5	78-6	83'6	- 0'7	91	0	9:2	0	1
1	Chittagong	Chittagong	29.767	29:397	29.282	29.672	0	91.8	70.0	86'4	74-41	80.6†	-0.4	91	+3	7'9	0	1
1	Chittagong Hill Tracts	Demagri	sin sil.		2 11			1			t recen							1
	Backergunge	Barrisal	29:780	29.498	29.602	29.614	+.001	80'8	71.9	85.7	77'5‡	81'6‡	-0.5	82	Ŧ	87	7	P
1	Nonkholly	Noakholly	29.769	29:474	50.009	20.653	0	88.0	73.8	84'5	76'4	80'5	-0.9	90		4.8	-	
1	Furreedpore	Furreedpore	29.746	29'482	29'574	29.614	004	90.0	76'4	86'4	78'4	80.4	-0.4	90	<u> </u>	7.0	-	
1	Dacca	Daces	29.753	29.468	29.283	29'606	-,019	91.3	74.0	86.6	76.0	81.8	-2.0	92	+3	92	+1'3	1
1	Tipperah	Commillah	29.769	29.478	29.592	29.628	013	91.7	756	85.4	77.5	81.2	-0.0	90		8.2	-	1
L	Mymensingh	Mymensingh	29.417	29.415	29.213	29.576	010	93.8	761	88'2	78.0	83.1	-0.2	89		6.2		1
1	Bogra	Serajgunge	20 727	29:435	20.247	29.594	091	92.7	75'7	86'9	77:9	82'4	-1:0	92	_	8.2		1
1	Pubns	Rampore Beau-	29'697	29'414	29'508	29.577	008	91'8	74.6	87.4	77:9	82'7	-1.0	89	_	3.7	1	1
1	Rajshahye	leah.		9000	DOLLES!	40.871		94'7	7519	89*21	79.01	83.4.		20		5'4		1
1	Maldah	Maldah	29'674	29:372	29'491	29.571	-	94'6	781	88.0	78-61	83 9	-0.4	89		9.0	No.	1
1	Dinagepore	Dinagepore	29'637	29.835	29.483	29.607	046 022	95'8	747	88'2	77'9	83.1	-1.0	86		4'2		
-	Rungpore Julpigoree and Cooch Rebar.	Rungpore Julpigoree	29'476	29.159	29.869	29.596	006	90.9	74'1	86.9	75.9	81.4	-1.3	95		3.1	-	1
	Darjeeling Hill Tracts	Darjeeling	22.088	22.721	22'840	-	-:042	70.6	55'6	65.2	57'2	61'2	-0.6	98	+4	9.2	+0.4	1
-	Purnesh and North Bhagulpore.	Purneah	29.630	29.316	29:442	29.568	028	94.3	75'4	88.2	77:9	83'1	-1.2	90	+2	88	+1:3	1
Į	Mozufferpore	Mozufferpore	29'576	29.263	29'358	29.538		94.9	75'2	87.5	78 9	83.5	-1:0	98	Ī.,	6.8	T	1
1	Durbhunga	Durbhunga	29*594	29.281	29:392	29.563	-'032 -'014	99.5	74 9	88.7	78.0	83'4	-1.0	88	7.	7'9	+1:1	1
	Chumparun	Motihari	29.549	20 279	29.344	29.537	-0.33	55.3	74'6	87.81	Titroet	83 1‡	-27	89		514		
1	Sarun	nea Distriction	50.356	29'102	20.501	29'535	912	943	70.0	87'1	77'#	82 41	-0.7	85		74		1
1	Shahabad {	Buxar Arrah	29°507 29°536	29.245	39°255 29°341	29.547	- 041 - 02s	91.A	74.3	85 B 87 5	77'9	81'9 82'7	-2 3 -2 2	90	=	8.6 8.6	=	1
	Gya	Gya	29:350	29'081	29-177	29.555	033	na.0	75'5	88'1	78'6†	83 31	-1.7	83	+3	7.9	-11	
Į	Patna	Bankipore	20'563	29-257	29:358	29.542	043	96'0	75'2	87'8	78'8	83 3	-1.0	88	+6	9.3	+1.0	1
il	South Bhagulpore and	Bhagulpore	29'587	29-273	29:387	29.549	024	94.3	76.0	88 3	78'5	83'4	-1:1	88	-	8.9		1
	Monghyr.	Naya Doomka	29-260	28:973	29.067	29.502	015	92.6	73.7	87'4	76.9	82.2	-1.0	80		5.5		1
-	Sonthal Pergunnahs	Hazaribagh	27.760	27'473	27:577	29.578	018	87'5	70-2	82'4	72'8	77'6	-1.2	90	+4	9.7	+0.4	
1	Lohardugga ?	Name and American		27'853	27'457	29.574	017	87'5	69'4	82'2	71.7	77:0	-1.2	86		9'1		
	Manunoom	Ranchee	27'654					TO ST					200		19 10	15000	10595	
I	Singbhoom	Chyebassa	29'024	28'684	28.811	29.575	+*003	92'9	73.7	88'2	77'0	82.6	-0.2	83	-	8.4	-	
×	Assam {	Sibsagar Dhubri Silenar	29°428 29°661 20°707	29°197 29°335 29°428	29°319 29°489 29°651	29.653 29.606 29.657	011 011 018	97'1 89 2 94'5	75°5 75°6 74°3	85 7 85 1 88 9	77'3 77'41 76'6	83.3 81.3 82.8	-1.4 -2.0 -0.0	94 92 90	+3 +4 +4	9.7 9.2 9.6	+0°5 +2°0 +1°4	ы

* Mean of 28 days. † ... 29 ... ‡ ... 50 ...

engal for the month of July 1890.

				APIE			Ten er Asses	TRICT OBS	518			Tarre
							ALL.	RAINP			one her	1
TRICT.	DISTR	Representative station.		-	15th May	Since				Of month.		0 8 4 5
			Normal mean num- ber of rainy days.	Mean num- berofrainy days,	Variation.	Normal mean.	Mean of dis- trict.	Normal mean num- ber of rainy days.	Number al	Variation from mean.	Normal mean,	trict.
		Pooree)								db		
	Pooree	Gopalpore}	32.6	40.1	+6.03	22.12	28.12	18.1	19.3	+4.07	11.00	16.00
01	Cuttack	Cuttack	34'1	39.6	+3.26	23.82	27.08	17.9	19.4			
	Balasore	Balasore	33.9	37'7	+0.51	23.98	24.10	17.7	13.7	+2'47	12.23	14.70
at Midnapore	South-West and South	Saugor Island	38.3	41.7	-3'28	27.52	24.54	20.1	17.0	-5.85 -8.10	13.01	7.16
th St-Pergun-	nahs.									-0.10	15'46	7.36
C. I 100 1 100 100 100 100 100 100 100 100	Midnapore	Midnapore	34'0	43.6	+5'41	24'32	29.73	17'5	18'3	-3:45	12.75	0.90
nahs, Howrah,	24-Pergunnah and Hooghi	Onloutta	421	43'5	+3.38	24.93	28'31	21.8	19.7	-3'41	12.44	0.02
	Burdwan	Burdwan	35:7	43.7	+15'48	60-00	The state of					5 00
	Bankoora	Bankoora	38.3	43.3	+7:36	22.08	37.56	17.9	19.7	+3'86	10.28	14'44
nrdwan and	West Burd		39.2	45'9	+9:98	25.48	32'84	20.5	20.8	+0.78	18.39	14'17
om,	Beerbhoom,				10.00	25.01	34'99	20.8	23.8	+3.06	12.94	16.00
abad	Moorshedaba	Berhampore	37.2	41.6	+8:83	23.16	31'99	18'9	23.8	+6'81	10.88	17:69
* *	Nuddea	Krishnagore	37:9	43'4	+412	23'47	27.59	18'1	19.8	+1'3)	10*24	11'59
91 CCP 1074011071105017401	Jessore and 1	Jessere	42.3	48.2	+4'06	26.88	30.94	20.3	23-9	+0.44	11.19	11.63
***	Chittagong	Chittagong	28.0	58.5	+12.01	65.97	77'98	25'5	26'5	+17 14	31.09	48.50
g Hill Tracts	CONTRACTOR OF THE PARTY OF THE	Demagri	52'5	52.0	+2.30	41.06	43:36	24.2	25'3	+5'31	17'40	22.71
The state of the s	Backergunge Noakholly	Barrisal	51.8	53'8	+0.75	41.07	41'82	25.3	27'3	+1.48	17'98	19:46
OPOESSESSIBLE	MENNY MICE.	Noakholly	51.1	26.0	-1.77	55'36	58.59	24.7	29'0	+2.25	23'27	25.79
ore	Furreedpore	Furreedpore	43'5	45'0	-5.04	28.79	23.75	20.2	23.0	-0.76	11.50	11:14
	Dacca	Dacca	45'2	54.0	+5'48	31.37	36.85	20*8	26.2	+0'86	14.03	14'89
	Tipperah	Commillah	47'2	40.3	+2.93	34'52	37.45	81.8	24 0	+2.98	13.82	16.80
igh	Mymensingh	Mymensingh	44.6	20.8	+8'57	35 81	44.38	19.9	35.6	+3.68	13,36	17:04
	Bogra	Bogra '	38.8	47 8	+4'07	30.13	34.19	17.6	23.0	+0.72	12.75	13:47
	Pubna Rajshahye	Serajgunge	40'1	48'5	+1.75	25.23	27.27	18:1	25.0	+0.04	10.57	10.31
" "	assistanye	Rampore Beau- leah.	36.6	47.6	+15.89	25.95	41.84	17'5	24'3	+7.72	11.33	19:07
	Maldah	Maldah	40.2	46.5	-1.67	26'64	24-97	20'8	22'5	-0.70	11.00	11.59
re	Dinagepore	Dinagepore	- 38.4	43.8	+7.07	29'74	36'81	19.1	20.2	+475	12 05	16:80
	Rungpore	Rungpore	39*4	57.8	+4'29	42.69	46.98	15.5	25'3	+0'51	13.09	14'50
and Cooch	Julpigoree a Behar.	Julpigoree	51.6	63'4	+17.68	60'75	78*43	20'9	26'2	+9*83	20.65	30.75
CONTRACTOR CONTRACTOR	Darjeeling Hi	Darjeeling	57'8	69.8	+29*14	67:90		2000	9010			
- Fall - SC 2 7 (10 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C	Purneah an Bhaguipore.	Purneah	33'3	44'0	+13.17	28:31	97'04	28.0	29'8	+27'52	82'70	60.55
				THE PERSON		2.01	41'48	18.0		+9128	13.76	23'04
	Mozufferpore	Mozufferpore	25'7	38'3	+10.14	20.50	30'34	14.7	21'3	+ +878	11:42	20:20
	Durbhunga	Durbhunga	26.2	89'7	+14 05	2018	35.03	14'3	21.7	+11'35	11.95	22'94
ın	Chumparun	Motihari	25'1	38.0	+18'64	21.11	39.75	18.3	20.5	+11 81	11'57	22:38
	Sarun	Chupra	26.3	35.4	+9.76	19.72	20'48	15.9	20.7	+5.10	12'18	17:28
	Shahabad	Dehree)	27'4	36'6	+10.13	17.22	27-35	17.2	22'2	+5.09	11'85	16:44
	Com	Arrah)							STATE OF		A1 00	
	Gya	Gya	26.3	36.1	+12.84	19.22	31.20	16.0	21.8	+5'24	12'28	17'47
and manufactures	Patna South Rhase	Bankipore	28'1	34.4	+5'52	19.64	25*16	17.0	21.3	+3'45	11.95	15.40
agarpore and	South Bhagu Monghyr.	Bhagulpore	81.0	39.8	+11.23	20'17	31.70	18'2	21:8	+5.59	11.00	16.85
ergunnalis)	Sonthal Pergu	Naya Doomka	36-2	44'5	+9.19	24'23	38'42	19.7	23'8	+ 2'59	12'86	15'45
b	Hazaribagh	Hazaribagh	36.9	42'2	+7:17	23.08	30'25	21.3	25.0	+ 0:47	18'44	17'91
pa	Lohardugga	Ranchee }	37.7	89.6	+3'70	29:02	25'79	21'6	22.3	+3 70	12:80	10'50
	Singbhoom		39'4 5	44.5	+3.82	21.81	24.63	31.4	25.0	-1.50	12.07	1078
ر د	Assam	Sibsagar Dhaori Silenar	49.4	41.0	-3.29	25.14	21.92	21:7	19*6	-4.85	14:27	9.42

Table of Rainfall recorded at Station

Meteorological division.	District.	Station.	1	2	3	•	5	6	1	8/	9	10	n	12	18	14	15	18	17	18	19
ORTSSA	Pooree	Pooree Khurdah Banpur False Point Gop Satzara Pipli	2°28 1°14 8°75 1°38 5°40 1°50	6°22 8°24 1°64 5°75		0°20	111111111111111111111111111111111111111	0°65 0°11 0°05 	0°82 0°98 0°04 0°70 0°05	0:39 0:39 0:03 0:73 0:53 0:40	0°13 1°86 0°19 0°05	1°89 0°62 1°03 1°05	0.04 1.59 0.00		0'18	0.02 2.00 0.75	1'69 :::	0°36 0°42 	6.02 0.12 	0°44 0°30	0'56 0'39 1'05 0'14 2 12
	Cuttack	Jagatsingpore Banki Cuttack Kendrapara Jajpore Dharmsalla Salipore	2°70 2°35 2°50 1°76 2°98 8°90 4°60	1°25 4°06 4°72 2°99 1°96	0°16 0°03 	0.02		0.30	0.65 0.28 0.04 1.15	1°30 0°50 0°96 0°63 0°77 0°15 1°40	1°10 0°03 0°04 0°43 0°40	0°50 0°88 0°71 0°47 0°47 0°35 0°80	0°70 0°18 0°20 0°53 0°23 0°22 0°15	0'83 0'22 0'44 1'00 0'38	0.02 0.21	111111	0°25 0°18 0°15 0°20	0°57 0°95 0°01 0°50	0°25 0°35 0°03 	018 	2:14 0:50 1:63 0:10 0:22 0:50 1:44
	Balasore	Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah	1'17 0'45 1'80 1'26 0'15 0'60	1'66 1'80 0'67 0'80	 0°20 0°16 		0.03	0.07 0.15 1.80 0.26	0°68	0°90 0°60 0°90	0.23	0°72 0°60 0°04 1°35	0°50 1°67 6°25 0°18 0°19	0°12 0°65 0°05	 0.12	0.70		0°27 0°51 	 0.20 0.05	0°50 0°30	0°92 0°93 0°14 0°02
SOUTH-WEST BENGAL.	Midnapore	Contai Saugor Island Tumlook Midnapore Ghatal Kukrahaty Garbeta	0°29 0°21 0°70 1°00 3°16 0°23 0°05	0°18 0°45 0°30 0°10 0°14 0°21 0°21	0°36 0°50 0°59 0°01 0°17 0°18	111111	0.05 0.20 0.02 0.12 0.04	0°39 1°73 0°50 1°20 0°89 0°64 0°13	1.98 2.71 0.09	0.63 0.03 0.06 0.12	0°26 0°45	0°18 1°00 1°68 0°53 0°18	0.09 0.52 0.30 0.19 0.04 0.38 0.19	0.30 0.32 	0.03	0.01	0°01. 0°04. 0°12	0.41	0°35 0°34 0°22	0°15 0°03 0°09 0 08	0.05 0.26 0.38 2.05
V.	24-Pergunnahs	Diamond Har- bour. Canning Town Alipore Jail Barrackpore Dum-Dum Barnset Buseerhat	0°42 0°60 0°16 0°10	0°12 0°30 0°09 0°13 0°36 0°44 1°70	0°22 0°45 0°02 0°02 0°10 0°50	1111111	0.02 0.15 0.14 0.40	0°92 1°15 1°88 1°05 0°36 0°10	0°06 0°15 0°40 0°02 0°91 0°40		0°22 0°20 0°04 	0°15 1°10 3°82 1°30 1°82 1°12 ,0°63	0°57 1°14 0°39 0°05 0°42 0°81 0°64	0.15 0.07 0.13	111111	 6:38 	0.04	0°02 0°16 0°04 0°14 0°14	111111	0°14 0°04 	0.06 0.04 0.06 0.48 0.08
	Howrab	Howrah Mohesreka (Oolooberiah).	0.04	0°18 0°32	0.03	11	0.03 0.03	1.42 1.28	0·10 0·19		0.10	2.70 0.13	0.32 0.32	0.00	0.03 0.03	0.01	0.02	0°24 0°02	0.02	=	0.05
	Hooghly	Serampore Hooghly Jehanabad	0*80 0*16 0*80	0.50	0°16 0°35 0°18	=	0.10	0°89 0°42 0°07	0.32	=	0.10 0.11 0.00	1.05 0.43 1.68	0°12 0°05 0°25	0.03	0.04	0.28	0.02	0.03 0.19	0°64 0°65		0°07 0°05 0°55
	Burdwan	Culna Burdwan Cutwa Rane-gunge Mankur	0°15	0.02 0.02 0.02 0.03	0.15	0.03	2°78 0°16 0°29	0°14 0°26 0°57 0°42	1°17 0°57 0°53	0°89 0°01 0°07	0°78 2′80 0°17 1°13 1°38	0.07 2.10 0.14 2.37 1.26	0.53 0.92 1.12	0°43 0°04 0°71	0.00	11111	6·19 0·13	11111	2 98 1 53 1 02 0 01 0 42	0°03 1°05 2°85 0°25	1°85 10°89 0°92
	Bankoora	Bankoora Bishenpore Maliara Kbatra Indas Kotalpore Anda Gangajalghati Raipore Sunamukhi	0745	0°57 0°24 0°71 0°70 0°25 0°17 1°30 0°78 0°48	0°58 0°64 0°04 0°32		0°29 0°20 0°35 0°04 0°60 	0.76 0.33 0.76 0.42 2.18 0.60 0.50 2.25 2.45 1.18	0.02 0.05 0.29 0.10 1.00 0.43 0.49 0.93	0.55 1.19 0.01 0.11 0.27 2.00 0.45	1°14 0°84 3°88 3°69 3°15 1°14 3°79	1'30 0'49 0'90 0'25 1'16 2'11 0'60 0'30 0'85 3'09	0°31 0°29 0°83 0°30 1°73 0°43 0°40 0°42	0°80 0°89 1°38 0°15 3°52	11111111111	0.05 0.02 0.02		1761	1'86 0'07 0'90 1'35 0'54 0'32 0'15	0.03 1.08 0.06 2.11 1.15 0.14	4'25 0'73 0'85 0'48 0'57 0'28 0'41 1'41 0'96 0'69
	Beerbhoom	Bh. Soory Hetampore Rampore Haut Bolpur Murarai	0.58	0°80 0°29 1°04	0°15 0°04 0°15	0°85	0°16 0°64 0°45 0°85 1°02	3°17 0°60 0°50 0°32	0.05 0.87 0.22 1.80	2.97 0.15 0.30	0°29 0°40 2°84 1°75	2°16 0°80 0°45 2°86 0°65	0:21 0:65 0:30 0:35	0°83 1°50	0-10 	0.84	1111	0°77 0°45	1°25 0°43 2°40 1°65 0°75	0°27 1°45 0°72 1°00 1°25	2:31 0:06 2:30 1:70
	Nuddea	Ranaghat Kishnaghur Chooadanga Meherpore Kooshtea	1111		0.73 9.30 0.05 0.45 0.32	0"18	1°30 0°17	0.40 0.56 1.60 0.78 2.32	0.12	0°02 0°03 0°28	0°10 0°90 2°22 1°40 0°25	0°65 0°22 0°75 0°30 0′74	0°16 0°11 0°21 0°42 0°50	0°22 0°48 0°40 0°20	0'03 0'52 0'60	2'86	111114	0.02	4'05 1'54 0'46 2'50 0'87	0°06 0°08 	0.10
	Khoolns	Satkhira Bagirhat Khoolna Nakipur Rampal	0°87 0°26 0°20 0°21	0°03 0°46 0°10 0°72	1'04 0'17 0'21 0'80 0'48	0.01	0°39 0°32 0°35 0°81 0°51	0 09 0 43 0 28 0 22 0 27	0.06 0.09 1.20 0.56 0.46	0°37 0°16 	0°22 0°95 1°76 2°18	0.08 0.81 0.83 0.83	0°33 0°36 0°21	0°05 0°41 0°65	0°03 0°42 0°36 0°53 1°56	0.01 0.82	0°40 0°10 0°42 	0°15 0°15 0°31	0.51 0.15 0.19	0°28 0°11 1°00 0°27	0.01
	Jessore	Narail Jessore Jhoudah Magoorah Bongong	0°75 0°13 0°22	0:24 0:04 0:28	0°05 0°30	0°10 0°45 0°07 0°25	0°45 0°12 0°15 0°70	1.65 0.00	0°19 0°76 0°08	0.53 0.03 0.11 0.10	0.49 2.50 3.32 2.45	0°02 0°18 0°21 0°05 0°35	0.80 0.85 0.85 0.85 0.85	0'48 0'08 0'35 0'02	0.02 0.31 	0°16 0°08 0°12 0°02 0°39	0.08	0.2 0.05 0.05	0°35 1'89 0°42 2°12	0.05 0.06 0.08 0.30	111111
	Moorsbedabad	Kandi Berhampore Lalbagh Azimgunge Jungipore Lalgola	0.00	9.03 0.10 0.10	0°30 0°14 0°30 0°14 0°55	0.08 0.06 0.22 0.20	0'47 0'65	1°10 0°63 0°63 0°50 0°99 4°02 0°47	0.06 0.06 0.07 5.09 0.20	0°23 0°10 0°22 0°30 0°12	0°15 0°96 1°70 0°18 0°75 1°31	0°40 0°33 0°70 0°95 0°94 0°50 0°96	0°40 0°28 1°29 1 15 0°40 1°10 1°11	2°49 1°20 0°24 1°12	1.69	0°10 0°90 0°90 0°01	0 23 0 15 0 18 0 50 0 17	0.03	0°45 1°00 1°98 0°19 0°07	0°52 1°04 2°11 0°77 0°06 0°30 0°65	0°86 0°16 0°25 0°07 0°09
CART BRUGAL	Chittagong	Jingunge Akhriganj Patkabari Cox's Bazar Chittagong Kutubdia	0°25	0°47 0°55 0°04	0°26 0°07 1°69 0°24 0°58	0.07 0.29 0.80 0.26 1.15	0.02 0.65 1.11 1.28 1.62	0'47 0'49 1'00 0'23	1.80 1.17 1.21	0°12 0°24 0°40 2°20 1°20	1'85 0'20 1'30 9'70 0'10	1.68 0.20 1.44 0.56 1.50	1.18 1.20 1.05 2.68 2.10	0°15 0°05 0°40 1°80 0°38 2°50	0°18 0°40 1°03 0°45 0°95	0.11	0.09	1'10 0'40 0'00 0'02	0.60 0.52 1.30	0'22 2'30 4'20 0'54 1'28	1:43 0:20 0:95 0:48 0:25
	Chittagong Hill Tracts.	Satkanya Rangamati Rama		0:42 0:47	0.36	0.39	4·15 0·65 2·40	0°45 0°70	0°94 0°46 0°15	0°46 1°55 0°10	0.20	0.20 0.20	0°94 0°12 0°25	0°50 0°10 0°07	0°50 0°37 0°03	0.70	1:05	0:37	0'48 0'86 1'00	0.90	0.68

Bengal in July 1890.

23	28	24	25	26	27	28	29	30	81	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the mouth.	Heaviest rainfall during the month.	Total rainfull from 1st January 1890 up to 31st July 1890.	Average rainfall from 18t January up to 31st July.	Station.	District.	Meteorological division.
0°61 0°31 1°15 	0.02	0°17 3°29 0°09 0°08 1°10 0°10	0°09 1°14 0°42 	0.08 2.20 	0°04 0°17 0°23 2°60 	0°52 0°03 0°03 1°04	0°11 1°23 0°26 1°27 0°10 0°16	0°69 0°64 0°42 0°43 0°12 0°60	0°44 0°20 2°00 0°13 	19 20 18 20 14 11	17'9 22'1 13'8 18'4 9	14'81 23'14 14'02 12'37 18'53 11'21	9°91 19°55 10°94 14°15 P	6.22 8.24 3.75 1.64 5.40 5.75	27:34 44:15 26:22 25:74	22.02 27.46 24.65 31.51 P	Pooree Khurdah, Banpur, False Point, Gop. Satpara, Pipli,	Poores	OR1884.
0.04 0.40 0.03 0.62 1.00 0.10	0°35 0°42 0°45 0°17	1°30 1°43 1°50 1°13 0°95 0°53	0.60 0.83 0.35 1.95 	0°67 0°15	0°13 0°50 0°32 	0°80 1°17 0°74 0°80 0°58	0°54 1°76 0°23 0°89 1°16 0°95	0°10 0°26 0.25 0°31 0°14	0°22 6°17 0°40 0°04	19 19 20 24 15 14 19	15'8 21'6 22'8 14'5 15'1 ?	15:06 14:70 21:.5 11:25 11:33 11:37 12:94	10°98 11°78 12°49 11°79 13°19 P	2:70 4:06 4:72 2:99 2:26 3:90 4:60	28.01 33.49 39.62 20.29 28.15 31.63 28.60	28.77 27.19 29.74 27.35 81.74 P	Jagatsing pore Banki. Cuttack, Kendrapara. Jajpore. Dharmsala. Salipore.	Cuttack.	
0°40 0°40 0°72	1.50	4'10 0'54 1'62 0'02	0°45 0°75 0°40 0°08 0°16 0°15	0°16 0°07	0°14 0°04 0°32		0.04 0.09 	 0.18		17 10 8 16 10 21	15°2 16°3 16°8 19°0 16°0 23°1	10°50 7°24 6°20 5°76 5°79 7°49	11 83 13 00 11 95 11 89 15 10 12 33	4'T0 1'80 1'80 1'80 1'62 2'10	24°92 30°23 28°54 30°90 28°86 29°16	27.66 31.02 28.08 33.43 30.59 31.83	Chandbali Bhuddruck, Sorah, Balasore, Jellasore, Baripodah,	Balasore,	
0°44 0°10 0°40	0°20 0°53 0°71	0°18 6°50 0°25 1°67 0°53 0°64	0.08	0°30 0°64 0°24	1°30 0°06 3°58	0.05 3.00 0.21 2.96 1.13 0.12	0°06	0°50 0°17 0°60	0.28 0.09 0.30 0.14 	13 17 17 15 23 16 23	17'2 20'7 13'0 20'1 19'3 P	5.76 8.07 10.40 5.94 11.57 6.10 15.22	14°41 15°98 12°25 13°90 13°62 9 13°53	1'98 2'71 3'00 1'20 2'96 1'13 4 29	26'40 24'48 33'50 30'82 30'84 19'78 35'71	35.48 30.92 33.35 33.35 83.38 P 30.62	Contai Saugor Island Tumlook. Miduspore. Ghatal. Kukrahaty. Garbeta.	Miduapore	SOUTH-WEST BENGAL.
1°12 1°38 0°31 0°07	1'45	0.62 1.47 0.23 0.78 0.16 0.28 1.78	0°13	0.04	0°91 0°23	0'92 0'83 0'71 2'35 0'86 1'88 1'20	0°14 0°05 0°08 0°15 	0.74 0.11 	2°35 0°30 0°42 0°04 0°04 0°13 0°30	20 21 19 16 14 15	22°3 9 23°9 18°9 22°6 20°8 20°1	10°26 10°41 11°55 8°76 6°88 7°82 11°81	14°53 9 18°37 12°49 12°18 11°24 12°82	2'35 1'47 3'82 2'35 1'83 1'88 2'40	29 95 32 58 27 96 25 70 26 75 38 71	34°95 9 34°13 31°80 32°93 32°26 35°67	Canning Town, Alipore Jail. Barrackpore, Dum-Dum. Baraset,	24-Pergumahs	
0.05	0.83	0.36			0.41	0°50 1°92	0.04	0.04	0.12	22 23	24.5	8'61 6 50	12.60	2°70 1°92	26'94 37'84	34°11 32°75	Buseerhat. Howrah Mohesreka (Oolooberiah)	Howrah.	
0.05 0.18 0.56	1'54	1.05 0.10 1.23	-	0.05	0°26 0°45 0°88	2°54 0°46 1°14	0°13 0°30 1°04	0°11 2°32	0°04 0°36 0°58	24 20 23	23.7 21.5 19.4	9°08 6'38 13'91	18*13 12*22 12*88	2°54 1°54 2°32	28°69 27°72 38°03	32.66 34.56 31.96	Serampore Hoogidy, Jehanabad	Hooghly,	
0°14 0°91 0°28 0°00	0.01 0.01 0.09	0.12 0.12	0°03 0°01 0°72	0°37 0°19 1°37 0°45 0°04	2*75 0*44 0*33 0*95	0°70 0°28 0°19 0°04 0°33	0°47 1'85 0°50 0°15 0°35	1°16 0°10 0°75 1°21 0°17	0°10 0°28 0°41 0°10 0°85	16 23 20 26 22	14'8 21'8 17'1 21'9 7	11'88 19'52 11'92 13'47 10'99	11°26 12°35 10°45 14°06 7	2:98 3:80 2:78 2:85 1:38	36'01 45'67 39'68 35'58 34'01	29.72 31.41 30.45 29.01	Cuina Burdwan Cutwa. Ranesgunge. Mankur.	Surdwan.	
0.57 0.06 0.08 1.28 0.68 0.06 0.06 0.1	0.08 0.29 0.32 0.88 1.06 1.83	0.95 0.87 0.35 1.78 8.14 0.96 0.23 1.25 0.70	1111111111111	0.05	0'89 1'58 0'38 0'85 2'50 5'05 1'80 0'50 1'55 0'54	1'74 0'72 0'34 0'38 0'32 2'03 1'20 0'65 0'45 0'79	0°13 0°42 0°19 0°32 1°38 2°68 0°45 0°31 1°85 0°33	0.65 1.32 0.11 0.95 0.33 0.54 0.40 1.56 0.52 0.19	3°40 0°26 0°85 0°22 0°06 0°43 0°39	21 24 17 24 20 17 18 20 17	21'4 19'1 19'0 21'2 P P P	20°70 10°85 14°87 10°24 21°87 23°34 16°35 15°93 15°05 16°08	19.78 12.11 14.03 14.68 P P P P 12.09 P	4°25 1°58 3°38 1°78 8°69 5°05 2°11 3°70 2°45 3°52	30'72 35'08 30 04 23'71 42'84 50'34 33'06 43'77 33'19 34'44	30 35 31 43 20 84 32 01 ? ? ? ? 28 19	Bankoora Bishenp.re Maliara Khatra. Indas. Kotaipore. Anda. Gangajalghas. Raipore. Sonamukhi.	Baukoura.	
0.06	0140	0°16 0°51 0°65 1°64 0°40	0°49 0°52 0°15 0°05 0°20	0°61 0°12 0°20	0°80 1°15 1°50 0°55	0'40 1'05 0'34 1'95	1°82 1°14 0°70 0°25 0°42	0'42 0'65 0'20 1'30 0'35	0°94 0°64 0°85 0°31 1°05	24 25 20 17 22	22.8° 19.7 18.9	20°92 13°94 15°65 13°94 19°69		3°17 1°45 2°40 2°36 1°95	40 23 35 73 36 14 35 85 35 36	29°03 81°60 27°55 Y	Bh. Soory Hetaupore. Rampore Haut, Bolpur Murarai.	Beerbloom,	
0°02 0°66 0°80 0°20	0.40	0'85 0'64 0'15 1'05 0'46	0.50	0.85 0.41 0.50	0°82 0°30 0°20 0°63 0°57	0°17 0°18 0°64 1°00 1°19	0°57 2°66 0°52 2°55 1°46	0°03 0°07 0°08	0°24 0°32 0°05	18 24 17 16 24	16:0 20:4 17:8 17:7 19:2	11'87 13'07 8'76 13'42 10'80	10'88 10'32 10'69 10'11 11'02	4'05 2'86 2'22 2'55 2'32	\$2.07 \$4.25 26.43 \$0.32 \$2.38	31'06 31'44 33'03 31'87 35'01	Rangahat Kishnagh ar. Choodanga, Menerpore, Kooshtea.	Nuddea.	
0.00	1°78 0°55 0°98 2°56	2:27 1:07 1:05 1:00 0:52	0°05 0°21 0°03 0°19 0°17	0.03	0.53 2.30 2.35	0°20 3°65 0°83 0°98 1°12	0°57 0°51 0°66	0.30 0.20 0.43	0.16 0.08 0.51	30 21 26 17 19	21.7 20.9 51.1 P	10°53 16°53 12°79 9°53 15°40	13:41 14:86 12:09 F	2·27 3·65 1·76 1·00 2·56	38'69 46'30 37'88 39 97 39'39	38*21 41*37 58*20 Y	Satkhira Bagirhat. Khoolna. Nakipur. Rampal,	Khuoinr.	
0'21 0'54 0'32 0 0 11	0°64 1'18 0°08 1'00	0°18 0°70 0°44 0°81 0°15	0°82 0°04 0°08 0°30	0.16	1.00 0.84 0.19 0.47	1°48 0°41 0°55 0 62 0°45	0°24 1°04 8°02 0°93 0°35	0°89 0°30 0°20	0°04 0°25 0°05 0°13	22 25 20 28- 10	10.0 28.3 18.9 21.0 15.4	7.87 9.10 20.29 8.85 8.50	9.00 11.70 9.75 10.28 11.20	1'48 2'50 8'02 2'45 2'12	37'62 39'64 37'48 31'50 27'68	33:47 40:17 35:66 37:66 32:42	Narail Jessore. Jhenidah. Magoorah. Bongong.	Jessore,	
0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	0.34	0'76 2'08 2'08 1'90 0'72 0'00 1'65 0'64	0.70 1.21 1.80 1.00 0.58 0.40 0.77 0.95 0.20	3:00 4:02 3:42 1:35 0:16 1:25 1:36 1:97 0:80	2*6a 3*98 1*84 1*20 0*67 2*10 0*96 1*33 0*20	0°80 1°25 2°10 0°70 0°15 0°18 0°23 0°30	1'87 1'07 0'15 0'30 0'15 0'45 0'07 0'71	0.55 0.15 0.31 0.17 1.48 0.10 0.16 0.52 0.70	0°16 0°57 0°55 0°12 0°95 0°21 0°10	55 E 1 S 2 S 3 3	19°8 18°9 17°8 19°9 18°9 18°4 ************************************	19:22 20:50 24:07 14:13 11:65 17:54 18:48 13:40	10'97	3'00 4'02 3'42 1'90 1'48 4'62 1'65 1'07 2'30	36'54 33'78 86'22 33'35 27'51 39'45 39'45 36'21 31'81	30°28 20°30 27°64 27°84 27°32 20°17 *?	Kandi Berhampore Lalbaga Azingunge Juogipore Lalgoia Jaigunge Akarigunge Patkabari	Moorshedabad,	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 2.25	3'45 2'97 1'88 3'00	1°70 2°33 4°63 3°00	2:50 5:86 4:25 2:10	4'10 6'53 3'69 8'00	1°20 1°68 2°90 2°50	5:58 7:56 2:80 2:00	1'73 0'77 2'00 0'79	0°20 0°43 0°06	99 94 99 93	26°3 24'6	45°12 51°28 43°49 33°83	41°31 22°18 9	5°58 9°70 4°63 8°00	92°95 76°21 70°54 56°15	90139 82151 90139	Cox's Bazar Chistagong. Kutubdia.	Chittagons	EAST BRHAR.
9 0.1	2000	1.40	4°05 1°76	1°55 8'75	1.05 3.20	5.80 5.80	0.26	0.38	0.60	25 26	25"9	20196	18'78 15'58	4'05 8'75	52'83 56'32	55'34 50'47	Rangamati Ruma.	Chittagons Hill Tracts.	

Table of Rainfall recorded at Station

Mateorological division.	District.	Station.	1	•	8	•	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19
SART BRINGAL —concid.	Backergunge	Patuakhally Perozepore Burrisal Bhola Gorranddi Bauphal	0°21 1°09 0°81 0°07	0°20 0°45 0°28 0°35 0°31	0°52 0°22 0°66 0°05 0°75 1°09	0°05 0°70 0°82	0°10 0°44 0°79 0°72 0°38 0°12	1°05 1°90 1°50 0°71 0°44 1°23	0°31 0°45 0°92 0°36 0°28	0°73 0°21 0°35 0°27 0°23	0.61 0.42 0.20 0.92 0.27 1.00	0°10 1°07 0°22 0°20 0°25 0°49	0°42 0°24 0°10 0°05 0°16 0°07	0°50 0°05 0°34 0°27 0°45 0°49	1'50 0'11 0'25 0'12 0'70 0'08	1.25 1.37 0.80 0.19 0.50 1.08	0°07 0°96 0°32 0°59 0°36 0°54	1'16 0'15 0'18	0.10 0.21 0.08	2'00 0'12 1'90 0'20 0'08 1'04	0.07
	Noakholly	Noakholly Fenny Harishpore Ramganj	0.63 0.72 0.52	 0.15	0.56 0.22 0.12 0.22	0°30 0°37 1°00 0°20	0°85 0°87 0°15 2°60	0.30 0.30 1.20 0.30	0°38 1°15 0°75 0°10	0.93 1.85 2.10	1.10 1.50 5.00 1.12	0.72 0.50 1.45 0.62	1.03 0.65 1.50 0.62	0°64 0°43 0°50 0°46	1.20 0.10	0.84 0.27 0.90 0.70	0°35 0°18 3°80 0°46	0°74 0°31 0°45	0°22 0°63 3°40 0°50	0.03 0.50 0.45 2.40	0°25 0°86
	Furreedpore	Madaripore Furreedpore Goalundo	0°54 0°05	0.50 	0.11 0.18 0.11	0°08 0°48 0°06	1°21 0°03	0.03	0°38 0°42	0°28 0°07 0°20	0.15	0.68 0.15 1.69	0°45 0°25	0.40 0.08 0.21	0.32	0.22	0.04	0°63 0°45 0°23	0.04 0.05 0.65	6.08	0.25
	Daces	Munshigunge Dacca Narainsunge Manickgungs Joydebpore	0°35 0°03 0°18 0°18	11111	0.25	0.21 0.07 0.78 0.45	2:03 3:72 3:00 0:37 6:67	2.08 2.46 0.34 0.61	3°50 0°12 0°20 0°72 0°15	0°32 0°28 0°34 0°18 0°46	0°31 0°46 0°28 0°15 0°88	0°33 1°57 0°16 0°34 0°02	0:45 0:40 1:12 0:21 0:64	0°12 0°76 1°02 0°26 0°64	0.40 0.16 0.20 0.19 0.06	0.20 0.22 0.48 0.10 0.32	0.08	0.10	0.43 0.46 0.54 1.85 1.83	0°13 0°32 0°08	0°10 0°40 1°04 0°05 0°23
	Hill Tipperah	Agartola Comilia	0.72	**	0*20	3.25	0.28	0.21	0.80	0.35	0°37	0.14	0°27	0.37	1.00	0.39	0.19	0:55 0:53 0:80	0.62	0.4a 0.60	0.
	Tipperah	Chaudpore Brahmunberia Ramchandra- pore,	0°70 0°35 1°86	1.08	0°36 0°21 	0°26 0°66 1°32	2.00 1.62 2.70	0°25 8°52	0°86 0°86	0°40 0°28	1.00 0.44 0.85	0.43	0°15 0°30 0°42	0.25	0°20 0°48	0°11 0°67	0.17	0.60	0°80 0°28	1.00 0.67 2.90	0.2
No.		Nasirnagar Daudkandi Kasba Laksham	2.10	3*17	2.22	0°50 1°02 1°15 0°10	0°70 0°26	4.05	2.40		1.45	-	2-22		0.02 0.75	0.01	0.05 0.05	0.03	1 02	0'27 1'10	:::
	Mymensingh	Kishoregunge Atis (Tangail) Mymensingh Jamalpore Netrokons Subornakhally Durgapore Sherpore Town Dewnganj		0.42 0.23 	0.03	0°89 0°15 0°32 0°25 1°63 4°30 0°05	0.72 0.73 1.66 0.12 3.80 1.63 3.20 0.34 0.90	0'46 1'31 1'02 0'23 1'15 0'82 0'19	0°47 0°69 0°62 1°03 1°00	0°74 0°25 0°26 0°38 0°64 0°26	1.54 0.82 0.63 0.43 	0°21 0°22 0°22 0°44 0°40 0°10 0°80	0°13 0°06 0°55 0°44 0°40 0°20	0°52 0°20 0°67 0°09 0°15 0°10	0.82 0.66 1.01	0°12 0°73 0°02 0°07 2°40 0°46	0°17 0°19 1°50	1 44 0 12 1 85 	2°14 2°96 1°50 0°17 4°55 3°30 0°77 0°40	0.41 2.13 1.33 0.08	0°18 0°86 0°14 0°06 0°05
IORTH BENGAL	Pubna	Pubna Serajgunge		0.03		0°32 0°13	1'34	1.08	0.20	-0.08	0.22	0°15 0°11	0.91 0.15	0.03 0.53	0°02 0°14	0.67 0.59	0.53	0°15 0°01	1.55 0.08	0.54	0.02
	Bogra	Sherpore Nowkhilla Bogra		0*47	1111	0.16	0.79 0.24 0.07	0.68 0.74 0.59 0.16	0.09 0.19 0.09	0.02 0.51 0.51	0°16 0°64 0°16 0°38	0°50 0°24 0°35 0°90	0°67 0°37 0°24	0°31 0°17 0°09 0°50	0°48 0°15 0°67 0°19	0°18 0°32 0°22 0°97	0.65 0.50	0°28 0°48 	0°21 1°45 0°22	0°03 0°03 0°15	0.32
	Rajshahye	Beauleah Nattore Naogaon Lalpore Manda	 0'10	d*05	0.31 0.08 0.20	0.02	0°06 0°35 0°22 1°28 1°07	1.68 8.08 0.20	0°22 0°35 1°02	0°21 0°02 0°53	2.20 0.20 1.80 1.00 1.08	0°24 0°86 0°31 0°30 0°10	1°45 0°65 0°89 0°32	0°14 0°18 2°50 0°15	1 65 0 40	0°04 0°12 0°15	0.30	6.06 0.51 0.11	1'00 2'70 0'13 0'15 0'80	0°82 0 07 0°21 0°20	0.50
	Maldah	Maldah Chanchal Gajol	1111	0°12 0°19 	0.55		0'04	0.05 0.02 0.02 0.02 0.02		0°94 0°26 0°20 1°98	0.88 1.24 0.75 1.62	0°24 0°05 0°27 0°72	0.02 0.12 0.12 0.22	0°37 0°22 0°19 0°28	0.08 19 1.00 0.03	0:19 9:60 3:80	0.00		0'58	1°55 1°67 2°00 1'91	
	Dinagepore	Mohadebpore Churamon Raigunge Dinagepore Baloorghat Thakurgaen	11111	0.31	0'31	0°18 0°13 0°26	0°52 0°30 0°24 0°50	0°10 0°13 0°64 0°84 0°17 0°16	1'44 0'48	0 82 0 66 0 18 2 05 1 23 0 69	0°29 0°21 1°15 0°19 0°14 0°23	0°20 0°07 0°85 0°10 0°23 0°08	0°69 0°97 1°96 0°95 0°45 0°68	0°31 0°62 0°78 0°24 0°08	0°81 0°06 2°29 0°19	3'18 0'79 0'91 1'82 1'88	2.80	1.73 0.31 0.50	1.16	1'52 1'15 0'27 0'49 1.'68	0.63
	Rangpore	Bhawanigunge (Gyabanda). Rungpore Kurigrain Bagdogra (Nilphamari).		1'09 3'10 0'75	0°15 0°12	0°10 0°12 0°60 0°04	0°65 0°30 0°27	0°65 0°32 0°06 0°77	0°10 0°36 0°26 0°51	0°20 0°28 0°03 1°64	 0.04 1.15	0°32 0°07 0°03 0°25	0°15 0°14 0°33	0°28 0°12 0°88 0°12	0°11 0°04	0.20	0 47 0 12 1 45 0 28 0 43	0°11 0°40 0°40 0°18	0.05 0.05 2.70 0.84	0°41 1°34 0°54 0°38	0.02
	Julpigoree	Julpigoree Alipore Doar Falacotta Debiganj Bhogotpore	0.04	0'05	0°04 0°01 0°30	1.71 4.93 2.67 0.19 5.25	0°52 0°34 3°31 4°83	3.26 2.05 4.11 0.43 0.15	4'31 4'70 5'78 1'66 2'19	2.61 2.50 2.47 1.77 1.30	1°80 0°70 1°20 0°48 0°25	1.74 1.57 0.72 0.19 1.99	0.06 0.05 0.22 1.07	0°25 0°13 0°56	2.88 0.04 6.35 0.37 0.85	1°25 0°25 0°84 0°05 0°71	6'99 1'45 2'88 3'67 0'41	1:71 1:47 2:20 0:64 2:66	0°80 3°10 1°18 0°12 1°02	1'90 0'47 0'88 0'15 3'34	4'86 0'03 0'88
	Cooch Behar	(Nagrakatta). Dinhatta Cooch Behar Mickilgunge Matabhanga	0.05		0°53 0°11 2°37	0°61 2°00 1°06 0°41	0.05 0.55 0.53 7.57	0'84 6'71 1'20 4'19	0'45 1'60 1'89 2'78	0°52 0°55 3°85 0°05	0.02 0.13 3.57 0.24	0'48 0'78 0'13 0'03	0.05	0°88 0°09 0°75	1.93 0.57	0.18 0.65 0.43 0.81	0°06 1°10 1°43 8°71	0°05 4°23 2°00 1°07	0°29 0°58 0°34 0°04	0.11	0°27 0°41
	Darjeeling Hill		11111	2.48 0.37 0.70 1.05 1.12	4'05 1'36 0'15	1°56 2°98 0°23 0°45 0°48	0°31 1°80 1°87 0°74 1°02	3'32 2'65 1'15 0'64 2'40	4'83 1'42 1'77 1'45 1'70	3°22 1°67 3°10 2:53 1°30	2.04 3.19 2.74 4.24 4.32	2:57 5:10 4:00 3:54 4:74	0°29 0°15 2°48 1°50 8°80	1°55 0°23 0°28 0°37 0°40	1°50 4°20 0°52 0°74 1°50	2:23 5:89 3:61 8:65 7:84	1.69 2.16 1.15 0.68 0.35	1'94 1'48 0'23 0'36 0'24	1.65 1.14 0.07 1.23 1.35	3.88 5.43 4.41 1.46 8.30	0°69 1°73 1°50 0°88 8°70
Nouth Behad	Purneah	Kissengunge Arrareah Purneah Gondwara Bularampore Matiari	11:11	6°32	0°27 0°70 0°11 	0.01	0.01	0.40	0'94 1'56 0'7/ 1'28 1'00 1'95 0'48	4:21 2:97 2:50 0:87 0:44	0°75 1°83 2°13 1°58 1°20 1°20	0.72 0.76 0.09 1.00 0.65 0.10	0.20 0.33 0.08 1.10	0.01	0°12 0°38 2°35 0°17 0°60	0.75 1.72 0.07 2.30	0.94 0.78 1.89 2.70 0.61	3.15 3.28 0.05 0.37 0.27	1°56 0°54 0°49 2°20 0°33	0.95 1.23 2.18 3.00 0.60 0.47 2.50	0.79 1.16 0.82 0.80
	North Bhagul-	Kaliaganj Maddapore Soopool		03.0	*	***	0:29		0'44	8'40 5'20 8'75	1'61	1.25	0.36		0.60	1'80 0'88	0.12	0.37	2.22	1.16	0.44

in Bengal in July 1890-continued.

21	22	23	24	25	26	27	28	29	80	31	Number of rainy days.	Average number of rainy days.	Fotal rainfall for the month.	Average rainfall for the month,	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st July 1890.	Average rainfall from 1st January up to 31st July.	District.	Station.	Meteorological division.
0°13 0°55 0°99 0°32 0°35	1.50 0.27 1.45 2.00 1.28 1.58	1'00 1'50 1'05 1'28 0'35 3'16	2.60 1.39 1.71 1.54 0.48 1.96	0'65 0'64 0'31 0'91 0'30 0'16	0.76 0.18 0.05 0.75 1.43	0.60 0.45 0.23 0.67 0.50 0.41	4·20 1·55 1·30 1·68 0·15 1·58	0°45 0°07 0°07 0°50 0°28	0°97 2°55 0°60 2°19 	0°27 0°29 0°30 0°16 0°38 0°35	28 30 27 29 29 29	24.7 22.7 26.9 26.4 P	21.98 18.57 18.27 19.01 11.39 21.21	22°13 16°46 16°78 18°46 ?	4°20 2°55 1°90 2°19 1°28 3°16	49°91 44°98 49°22 45°65 85°67 43°04	58 29 45 47 48 53 52 98 P	Patunkhaily Perozepore. Burrisal. Bhola. Gournaddi. Bauphal.	Backergunge,	EAST BENGAL-
0.63 0.23 1.75 0.40	1°42 8°10 3°90 1°13	1.71 2.85 2.50 1.03	1.74 3.00 3.10 0.80	0.06 0.22 5.00 0.10	0'52 2'28 1'50 0'50	0°51 1°70 2°50 0°26	2.02 2.65 4.10 0.62	1.53 0.43 3.50	9:47 0:30 1:50 1:00	0°59 0°10 0°42	30 28 28 28	25'8 23'6 ?	24'91 26'06 46'20 19'81	21°36 23°64 ? ?	2.62 3.00 4.10 2.60	61.67 69.38 89.44 63.63	63'04 71'11 9	Noakholly Fenny. Harishpore. Eamganj.	Noakholly.	
0.38 0.65	1.27 0.56	0°70 1°02 0°65	0.25	0.09 0.39 0.12	0°55 0°35	1'64	2.80 1.03 0.85	0°13 2°61	0.48 0.22 0.15	0°47 0°12 0°16	22 27 20	20°0 21°2 19°5	11.01 11.02 11.40	12.59 12.67 11.89	2°80 1°64 2°61	33°42 33°12 35°86	42°53 42°43 38°27	Madaripore Furreedpore, Goalundo.	Furreedpore.	
0.08 0.15 0.15 0.30 0.30	0°70 0'54 0°29 0°45 0°15	0.80 0.65 0.81 0.06 1.45	0°44 0°08 0°49 2°00 0°20	0.37 0.33 0.18 0.18 1.10	0°11 0°83 0°16 0°52	0.22 0.77 0.24 0.10 1.95	0°45 0°18 0°65 1°70 0°22	1.00 1.08 1.27 0.32 0.83	0°26 0°30 1°34 0°27 0°21	0°04 0°05 0°38 0°12	25 28 27 26 29	19:9 92:1 21:4 19:6	18.77 15.72 18.24 11.82 14.26	16 12 12 96 15 69 12 11 P	8:50 8:72 3:00 2:00 1:95	47°57 51°87	51°99 44°74 47°54 37°94 ?	Munshigunge. Dacea. Naraingunge. Manickgunge Joydebpore.	Dacca.	
***	0.32	0.22	0.98	0.45	2.32	1.20	1:35	0.35	0'42	0'18	24	18.9	16'64	11.63	3.32	56'01	48.93	Agartola	Hill Tipperah.	
0.04 0.08 0.08	0°89 0°60 0°63 0°70	0.20 0.20 0.20 0.20	0°43 0°48	0°25 0°80 0°16 0°72	0°94 2°04 0°93	1°19 2°15 1°11	1.85 2.00 0.70 0.72	0.76 0.70 0.38 2.11	1'49 1'40 3'25	0°04 0°10 0°13	29 16 27 30	247 22'4 21'8 9	21:17 12:83 16:55 27:55	17:90 15:11 11:17 9	1.85 2.00 2.15 3.25	49.13	57.70 49.53 49.53	Comilia Chandpore, Brahmunberia Ramchandra- pore,	Tipperah.	
1'00	0.10 0.71 	0.83 1.00 3.10	9:10 0:52 2:30 2:30	0°70 0°29 0°05 	1.50 0.12 5.05	0°99 0°26 2°07 2°25	0.30 0.30	1.75	0'45 0'20 1'60		13 10 18 16	P. 01 D. 01	8'19 5'29 17'95 25'44	9 9	2°90 1°02 3°17 3°10	54'81 23'45 57'58 60'95	9.9.9.	Nasirnagar. Daudkandi. Kasba. Laksham.		
0°91 0°07 0°07 0°18 0°55 0°27	0°20 0°48 5°20 0°52	0°39 0°05 0°21 0°21 0°33 0°97 0°90	0°33 0°67 0°63 1°67 0°62 0°40 1°91 6°70 0°90	0°44 0°31 0°45 0°57 1°09 0°40 1°41 0°16 2°35	0.63 9.60 0.44 2.85 2.91	1°30 0°54 1°30 0°14 0°44 1°22 4°30	1'50 1'21 1'37 3'05 0'42 0'50 2'04 1'03	1.25 0.79 0.50 0.53 0.90 0.66 1.20	0°83 1°59 1°95 0°47 2°00 1°33 0°31	0'49 0'15 0'32 0'11 1'39 1'11	20 16 28 23 26 22 20 14	20°3 16°1 22°1 18°5 22°3 *	13'81 11'10 19'57 16'15 24'77 29'92 14'49 15'78	12:93 11:17 16:09 12:47 16:86	2:14 2:96 2:13 3:05 3:80 5:20 4:30 2:01 4:30	52'17 45'97 59'98 58'20 68'61 82'31 62'77 51'45	52'08 37'36 57'91 43'05 57'28 9 9	Kishoregunge. Atia (Tangail) Mymensingh. Jamalpore. Netrokona. Subornakhally Durgapore. Sherepore Towl Dewanganj.		
0.03 1.40	0:37 0:34	0.71 0.18	0.33	0°15 0°20	1 24	0.30 2.89	0°52 0°43	0.92 0.53	0.11	0.03	24 26	20°4 15′8	8.77 12.44	10.71	1°22 2°89	24°35 42°42	35:46 35:45	Pubna Serajgunge.	Pubna	NORTH BRIGAL
0.12 0.12 0.13	0.04 2.05 0.68 0.48	1°42 0°20 0°13 0°58	1.05 2.10 1.21 0.78	1.55 0.15 0.18 1.62	1.96 3.30 8.33 0.59	0°38 1°10 0°30 1°20	0.20 0.81 0.13	1'69 0'06 0'50 0'14	0.28 0.42 0.42 0.62	0.03 0.81 0.03	25 24 24 19	17:0 19:7 18:9 14:6	14.87 15.04 13.82 10.13	12:71 11:47 15:83 12:40	1'96 3'30 3'33 1'63	38.88 44.08 37.20 44.22	37'16 36'31 45'26 34'42	Sherpore Nowkhilla, Bogra, Panchbibi,	Bogra,	
0.80 0.13 0.13 0.90	1.54 0.30 0.30 0.15 0.10	0°08 0°88 0°68 0°55 1°20	1°55 0°87 1°85 0°55 1°20	0°47 0°93 1°80 2°18 0°60	2:55 2:70 0:84 0:40 0:90	2.83 2.06 1.33	0°14 0°17 0°60 1°65 0°90	0°68 0°70 0°25	0°72 1°18 0°35 0°50	0°23 0°06 0°69 1°00 0°20	27 26 20 20 20 20	20°0 14°8 17°7 9	22:67 18:23 16:30 18:16 12:20	11'49 12'20 11'25 ?	2:83 2:70 2:50 2:8 1:20	46°88 55°10 59°55 30°61 24°89	31°73 33°56 33°26 7	Beauleah Nattore, Naogaon, Lalpore, Manda,	Rajshahye.	
0°32 0°11 0°60 0°42	0'46 0'81 1'84 0'75	0°22	0°60 0°02 0°90 1°76	0'45 1'10 0'80 6'09	0°03 0°25 1°40	1.74 1.10 1.00 0.71	0.02 0.11 0.52 0.08	0°70 3°00 1°20	0°32 1°36 1°36 0°28	0°70 0°02 0°59	22 23 19 22	19*4 22*2 P P	9°93 18°65 17'00 14'96	10°74 12°27 9 P	1'74 3'00 3'80 1'98	28*45 34*85 35*82	28°01 31°35 9	Maideh Chanchal, Gajot, Sibganj.	Maldah.	
1.00 0.10 0.08 	0.05 0.58 0.17	1°85 0°11 0°15	1.15 2.18 6.64 0.95 1.16	0°57 2°27 0°58 4°70 0°34 2°85	9.83 0.15 0.20	0°10 8°81 2°85 1°32 1°83 0°64	0.45 0.27 0.21 0.07 0.43 0.80	0.78 0.18 0.26 2.84 1.68	0 14 0 54 1 24 0 07 1 38	0°28 0°07 0°53	23 17 19 22 20 23	17.5 18.3 20.3 19.9 19.4	16°98 16°64 19°22 16°88 14°26 15°56	11'01 12'29 12'69 14'99 10'50 ?	2'83 3'81 2'83 4'70 2'29 2'85	37.74 40°33 41°31 47°18 37°99 57°40	39.62 31.47 35.63 43.67 32.24 Y	Mohadebpore Churamon, Raigunge. Dinagepore, Baloorghat. Thakurgaon.	Dinagepore.	
0°14 0°14 0°40 0°58	0°36 0°01 0°02	0:15 0:45 0:04 0:04	0°52 0°35 0°31 1°48 0°50	1'50 0'48 1'61 1'98 0'64	1'85 1'14 1'11 0'85 1'52	1.99 2.58 1.31 0.59 1.85	4'60 2'48 1'15 0'12 2'53	0°37 1°04 0°05 9°95	0.20 0.12 0.40	0.18 0.10 0.10	26 98 21 26	19°2 13°3 16°5	16'87 13'78 12'92 14'99	11.91 15.77 13.37 13.58	4.60 2.58 2.70 1.98 2.53	56°98 50°66 57°04 58°12	41.75 52.52 58.50 56.41	Bhawanisuuge (Gyabanda). Rungpore. Kurigrama. Baxdogra, (Nilphamari.)	Rungpore.	
0°15 0°08 0°07 0°42 1°43	0.09 3.33 0.65	0°13 0°08 0°28	0°20 0°60 0°18 0°11 1°45	0.81 2.35 1.82 1.36 1.60	0.46 1.12 8.22 0.18 6.71	1'74 2'49 3'15 0'09 1'65	1'47 2'80 2'17 0'96 2'19	9°15 9°81 2'48 3°11	0°91 0°40 0°25 0°60 1°39	0.02 0.57 0.67 0.71	34 27 25 24 30	21.6	9°28 41°46 38°44 40°99 16°54 56°84	20.09 5 5 5 5	6:99 4:93 5:78 3:67 6:71	96°17 100°47 98°57 62°32 108°65	73:35	Ulipore. Julpigoree	Julpigoree,	
0°20 0°52 0°36	0°02 1°15 0°04 0°03	0.78 0.31 0.68	1°04 1°34 0°38 5°27	0°84 0°45 1°92 2°54	1°93 0°69 1°21 1°66	5°26 3°87 1°55 1°87	1°69 1°34 0°22 1°13	1°18 0°36 0°03 0°48	1.56 0.20 0.15 0.13	0°41 0°39 1°18	24 24 26 27	26°1 19°7 20°6 22°6	17:82 29:68 25:75 40:12	16:19 22:35 41:24 21:18	5°26 5°71 3°85 7°57	72'82 95'18 88'09 101'92	68'96 81'65 68'49 73'83	(Nagrakatta.) Dinnatta Cooch Sehar Mickligunge. Matabhanga.	Cooch Behar.	
0'88 0'24 0'90 1'30 0'42	0.08 0.00 0.05 0.08 0.83	1'05 1'07 3'10 4'54 4'43	0°34 1°01 1°01 0°61 0°05	4.87 3.61 1.00 2.60 2.55	1°17 8°80 4°63 4°38 4°41	4'19 5'28 3'66 1'74 2'60	1'54 2'85 4'01 2'04 4'70	5'46 1'54 2'86 1'00 1'88	1'42 2'10 2'98 1'29 1'18	0°81 0°20 1°81 0°98 1°40	30 30 30 29 30	25°2 23°0 27°7 27°0 1	69°55 69°64 55°63 52°06 71°41	47.68 32.86 30.36 26.77 9	5'46 8'80 4'63 8'65 8'65	123'94 116'48 101'60 81'54 126'66	126*79 74*48 69*99 57:97 Y	Buxa Siliguri. Darjeeling. Kahmpong. Kurseong.	Darjeeling.	
0'08 1'00 0'18	0°20 0°21 0°41 0°40 0°30 2°50 0°97	0°35 0°52 0°13 0°18	0:33 1:45 1:45 2:26 2:60	0.76 0.38 0.89 2.70 1.05 2.60	0°26 0°29 0°04 4°47 1°40 1°80	0.77 0.36 1.44 2.60 0.42 2.60	2°61 2°18 0°15 2°06 0°32 0°90 1°43	0:23 2:13 6:70 0:14 0:20	0:13 0:60 0:35 1:82	0°03 0°20 0°09 4°20 0°10 0°30 0°25	24 24 27 107 22 10 24	20°8 17°4 20°5 P P P	21.52 24.28 19.59 21.07 23.14 14.80 27.12	16:49 16:18 14:13 14:13	4'21 5'28 2'50 4'47 2'70 2'00 3'40	53°11 43°34 44°81 32°49 45°59 29°93 64°99	41'89 38'10 32'30 2 7	Kissengunge Arrarean, Purucah, Gondwara, Balarampore Matiari, Kaliagang,	Purnesh	NORTH BRHAR.
9'58	0.81 0.58	0'48 6'20 1'89	0:00 0:23 1:25	4°25 3°18 0°37	[0°90 0°28 0°21	2:55 4:32 0:91	3:41 0'ed	1'04 1'81 0'58	1.06	0.24	13 22 21	15.4 16.6	23°50 26°31 16°14	12.01	5°20 4°32 2°28	41:27 37:99 29:43	27·10 26·43	Maddapore Soopool. Protabpanj.	North Bhagul- pore	

Table of Rainfall recorded at Stations in

Meteorological division.	District.	Station.	1	2	3	•	ð	6	7	8	9	10	n	12	13	14	15	16	17	18	19	
NORTH BEHAE -concld.	Durbhunga	Tajpore Durbhunga Madhubani Bahera Roshera	0.02		0.06	0.18	0.06	0.03	0.08 0.07 0.20	1'08 2'24 1'00 3'20 1'50	0.04 2.04 0.27 0.10	1.02 0.48 0.17 0.53 0.20	0.04 0.05 0.02	0.62	0°32 0°05 0°32 0°10	0'46 0'66 0'12 0'40	0.02 0.11 0.80 0.02	0°42 0°48 0°15 0°15	0°48 0°38 0°59 0°06 1°90	6.88 5.32 4.12 2.25 0.60	1.08 1.69 1.41 0.22	
	Mozufferpore	Sitamarhi Mozufferpore Hajipore Paru Mahua Siuhar Pupri	0.02			1111111	0°18 0°24	0.08 0.12 1.17	0°05 0°30 1°18 2°55 0°80	2:28 0:38 1:49 1:02 0:03 1:30 3:64	0°21 2°04 1°78 0°52 1°85	0°08 1°12 2°93 3°96 0°34 0°80	0.04 0.05 0.22 0.11 0.10 0.63 0.24	0°06 0°07 0°10 	0°04 0°36 0°11 0°45 0°25 0°14	0°08 6°82 0°20 0°20	6719 	0°57 0°51 0°07	1'49 0'12 0'52 2'75 1'10 1'17	2°92 4°72 2°65 1°23 0°66 2°80 3°40	1.18 1.44 0.86 0.95 0.98 2.70	
	Chumparun	Motihari Bettish Bagaka Burhurwa	0°32 0°05	0.05	800	1111	0.10	1°70 2°59	0.63 0.45 0.20	2:46 1:09 1:24 0:91	0.07 0.80 2.45 0.24	2°10 2°05 2°22 1°64	0°14 0°01 0°23		0.13	0°34 0°02 0°15	0°03	0:77 0:72 0:71	2·43 0·80 1·97 0·30	2.83 1.32 1.39 0.74	0 90 1 80 0 52 0 31	The second second
	Sarun	Gopalgunge Sewan Chupra	0.20	::			::	0.63	0'65 3'81 0'41	0.08	1°32 0°21 0°32	0°38 0°13	0°12	0°24 0°64	:::	0°10 0°29 	0°20 0°09	0°50 0°24 0°15	0°30 0°84 2°58	0°74 0°16 0°88	0°15 0°48 0°30	
OUTH BREAK	Shahabad	Buxar Dehree Bhuboosh Sasseram Arrsh Mohaniah	0.08	0.05 0.25 0.30 0.34 	0.02		0-07	0°02 0°60 0°45 0°83	0.05 0.10 0.70 0.12 3.55 0.80	0.18 0.18 0.25 2.60	0°02 0°17 0°05 0°34 0°50	0.69 0.38 1.80 0.27 0.47 0.80	1.02 0.48 0.30 1.25 0.20	2:74 0:07 0:76 	0°31 1°45	0.04 0.21 	0.30	0.00 0.02 0.02	0 03 0 25 0 32	2:10 0:41 2:50 2:08 1:90	0.84 2.90 0.40 3.32 0.48	
	Gya	Aurungabad Gya Nowadah Jehanabad Arwal Dandnagar Sheerghati Kajauli Pakri Bara- voan,	6°26 0°62 0°50 1°25 0°65	0°53 0°48 0°50 0°16		0°50		0°84 0°86 1°88 0°13 1°40 0°50 0°90	2.82 4.36 2.63 0.10	0°50 4°36 6°54 3°03 0°20 0°29 0°78	1'10 0'44 1'72 1'20 0'10 0'40 1'76	1.05 0.34 0.29 0.13 0.20 0.25 3.25	0°20 1°24 1°28 0°40 0°46 0°17 0°40	0°11 0°22 0°12 0°12 0°12 1°00 0°80	2:43 0:43 0:08 0:14 0:11	0°93 0°67 0°20 0°65 0°44 0°60	0.07 0.10 0.60 0.32 0.10 1.60	0°27	0.70 0.08	0°48 0°52 0°24 0°35 1°22 0°12 0°40 0°85	1.41 0.17 0.42 0.90 0.10 1.32 1.65 0.25	
	Patns	Patna Dinapore Behar Barrh Bickram Hilsa	0°03 0°92	0°16 0°21 0°12				0.02	0°08 1°10 0°20 0°80 0°45 0°55	0°38 1°09 0°20 4°12 0°72	3.66 9.35 9.48 2.00 9.32 9.70	0.61 0'46 1'71 0'99 0'46	0.03 0.35 0.09 0.07 0.00	0.05 0.37 0.15 1.00	1.70 0.24 0.73 0.10	0°02 1°19 0°40 0°95	010	0°08 0°10 1°10 1°08	1°25 0°20	2'86 1'95 0'80 1'00 3'93 2'51	0°62 0°60 0°74 0°64 0°56	
	Monghyr	Begooserai Monghyr Jamui Gogri Sheikpura	0.44	0.67	0°21 0°35 			0.02	11111	0.54	0°20 0°29 0°30 1°37 1°20	0.02	0°25 0°08 0°16	0.06 0.82 0.66	0°13 0°58	0°46 0°12 2°04 2°70	0°57 1°78 0°22 2°27		0*29	1°29 8°77 5°11 5°87	0°12 0°53 0°73	-
	South Bhagul- pore,	Bhagulpore Banka Kolgong Bongaon	0°16 0°10 	0.30	0.03		0.60	0.12	0°84 0°45 7°50	1'00 0'08 1'42 2'36	0.79	1°21 0°38 0°54 0°52	0°18 0°86 	1'42 0'06 0'10 	0°48 1'20 1'05	0.60	0.10 0.18	0'88	1.85 2.07	0.88 1 04 0.25 0.86	1'18 1'57 0'12 	
	Southal Pergunnals.	Rajmehal Godda Pakeur Nya Doomka Deoghur Jamtara Mohagama Nanihat	111111111	0.02 0.02 0.03 0.03 0.03	0°08 0°19 0°02 0°09	0.07	6.02 0.39 0.15	0°21 0°27 0°18 0°07 0°19	 0°59 0°09 	2°37 0°32 1°39 0°08 0°48 0°36	0°26 0°29 0°04 0°23 0°76 1°26 0°20	0.08 2.10 0.24 1.53 0.28 0.44 0.85 0.40	0.26 0.63 0.13 3.01 0.23 1.17 1.12 0.53	0°75 0°14 0°86 0°35 0°72 0°13 0°65	0°46 0°03 0°21	1'78 2'05 0'90 0'21 0'14	0°12 0°48 0°01 0°26	0.12	1'96 3'91 0'61 2'55	1.87 5.65 0.73 0.41 3.15 0.64 2.12 1.05	0°95 0°18 0°20 1°92 0°45	
JHUTIA NAG- PUR.	Hazaribagh	Pachamba (Giridi). Hazaribagh Semtagurah Mahudi Hills Jhoomrah Hills Barhi Chatra Karagdeha Ramghar	0°27 1°16 0°45 0°34 0°90 0°55 0°03	0°21 1°11 0°22 0°92 0°10 0°06 0°80	0.15	0.06	0.05	0°07 0°90 0°46 1°14 0°80 0°25 0°50	0.03 1.38 0.14 0.21 6.46 1.30 0.70	1.95 0.07 1.66 0.10 0.50 0.60	0°05 0°02 0°10 0°62 0°40 0°35 0°50	0°56 0°38 1°00 0°23 0°70 1°20 0°82 0°29 1°00	0°93 0°69 0°10 0°25 0°26 1°60 0°19 1°00	1'10 0'73 0'12 0'25 0'70 2'35 0'45 2'57	0°38 0°02 2°29 0°50 0°70 	0°02 0°52 0°14 1°60 0°40 0°69	0°30 0°10 0°80	0.05 1.10 0.70 	0°92 0°05 2°86 3°71 1°10 0°76 0°47	0°67 2°22 0°10 0°57 1°30 1°00 0°40 0°41 0°90	0°19 0°27 0°44 0°70 0°25 0°30	
	Lohardusgs	Lohardugga Ranchi Palamow Silli Balumat Hoseinabad Garwah	0.08 0.11 0.15	0°21 0°74 0°14 0°80	0 15 		0°10 0°28	0°15 0°37 2°00	0°78 0°84 1°70 0°90 2°50 0°40 0°30	0°13 0°11 0°47 0°03 1°35	0 24 0 12 1 61 0 70	8:21 0:40 0:25 1:60 1:00 0:54 0:30	0°25 0°38 0°95 0°00	0°64 0°21	0.22 0.03	0°35 0°18 0°07 	0°55	0°13 0°22 	0°91 0°60 	0°07 0°25 0°68 1°40 0°12	0°75 0°37 4°46 1°00 0°03 0°85 0°85	
	Singbhoom	Chyebassa Chakradhar-	0.65	1.22 0.12	=			0°15 0°10	2:42			030	0.12		0.08	0.11			0.55	0.80	0.82	
	Manbhoom	Ghatsila Baharagura	1°30 0°74	0°38 0°36		=	0.92 0.92	0.60	0'55	0.17	0.02	1.75		0:05	072		0.29	-	11	0:10	-	
		Gobindpore Raghunath- pore.	0.20	1.36 0.30 0.46	0°86 0°65 0°70	Ξ	0'14	0°49 0°17 0°45	0°04 0°02 0°05	0°17 0°61 0°03	0°11 0°07 0°33	0°54 0°66 1°35	0°03 0°40 0°19	=		0.11	3°11 0°17 0°22	111	0.41	0°15 0°19 4°14	0°16 0°16 2°45	
		Barrabhoom Jhalda Chas	0°15 0°08 0°11	0.48	0.20		0.39	0°45 0°92 0°04	0°60 0°31 0°03	0.10	0.50	0°71 0°39	0.55 0.08 0.50	-	::	1.50	1.00 0.62	0.26	0.63 0.19 0.02	171	0°25 0°87 0°26	

engal for the month of July 1890-concluded.

	99	23	24	25	26	27	28	29	30	81	Number of rainy days,	Average number of rainy days,	Total rainfall for the month,	Average rainfall for the month,	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st July 1899.	Average rainfall from 1st January up to 31st July.	Station.	District.	Meteorological division.
	0.05 0.21 0.05	1.04 0.33 0.20 1.65	0.85 0.32 0.16 1.75	2.04 2.41 3.15 2.46 0.30	2:06 0:87 1:50 0:70 2:05	1.75 1.30 3.51 2.13 0.35	0°05 1°26 1°78 1°17 1°25	2.03 0.18 1.39 1.14 0.77	0.24 2.20 1.36 3.20 0.12	0.05 0.26 0.36 0.10	24 22 19 22 21	14.1 14.9 13.9 ?	21.99 22.58 24.24 20.02 15.86	12°81 12°02 10°84 P	6'88 5'32 4'12 3'20 2'05	32:46 36:54 41:02 35:53 28:21	28'61 24'41 24'90 9	Tajpore Durhhunga. Msdhubani. Bahera. Koshera.	Durbhungs	NORTH BEHAR- concld,
	0.09	0:37 2:67 0:12 0:60 0:40	0:67 0:22 6:41 0:90 0:97	2.02 4.00 0.43 2.35 0.76 2.50 1.60	1'67 1'65 1'11 8'80 2'00 1'10 1'72	1'53 1'77 1'18 2'30 2'32 2'30 2'00	0°73 0°87 0°19 0°35 1°12 0°30 1°12	0.94 1.24 2.95 1.50 0.12 0.74	1°30 0°42 0°52 0°39 0°45 2°10 0°76	0°32 0°22 1°57 0°14 0°20 0°17	22 22 20 19 17 16 16	11:7 15:7 16:8 9 9	18'16 28'02 19'43 22'18 17'73 16'88 20'11	10°87 10°94 12°21 ? ?	2'92 4'73 2'95 8'96 2'75 2'80 3'64	30:32 33:78 31:07 33:65 31:09 31:88 34:44	24°01 22°48 22°46 P P	Sitamarhi Mozufferpore. Hajipore. Paru. Mahua. Siuhar. Pupri.	Mozufferpore.	
	0.03 0.02	0°29 0°16 0°68	0°82 1°02 0°10	2:86 3:53 0:21 2:86	3°59 1°86 8°56 4°49	2.67 3.21 5.91 4.43	0°54 0°21 0°21 0°18	0°17 0°60 2°56 0°03	2°24 0°17 1°96 2°25	0°23 0°85 0°25 0°69	19 22 23 20	13·1 13·5 ?	24°30 22°40 29°87 20°49	10°96 12°99 P	3°59 3°53 5°91 4°49	43°61 38°26 49°55 38°06	23'55 26'21 ? ?	Motihari Bettiah. Bagaha. Burhurwa.	Chumparun.	
	0.93	0.40 1.81 0.83	0°40 0°40	1'74 1'51 1'55	1°24 1°13 1°08	1'34 0'64 0 16	1.70 2.29 3.60	3'60 0'13 3'39	0°27 1°36 0°78	0°84 0°58 0°04	16 23 23		15°39 17°75 18°70	12.75 11.68 10.85	3.60 3.81 3.60	26°13 32°38 31°83	23 '54 21'87 20'36	Gopalgunge Sewan. Chuprah,	Sarun.	
	1'70 1'40 0'75	1.30 0.40 0.80 1.10 0.05 1.10	0:90 1:50 6:40 1:80 4:60	0°15 0°15 0°15 0°25 2°35	0.02 0.52 1.28 1.25 0.90	0°17 1°20 0°30 1°03 0°48 0°40	0 46 0 05 0 35 0 05 0 20 1 10	1°20 0°22 0°26 0°58 0°24	0°25 0°40 0°06 0°42 0°10 1°40	0°11 0°23 0°11 0°80 1°35	25 25 20 19 22 14	17:3 18:0 15:0 17:9 17:8	14.74 12.98 12.55 13.55 28.44 18.16	11.07 11.25 12.37 11.58 12.62	2.74 2.90 2.50 3.32 7.10 2.00	26 37 23 65 22 76 24 87 42 05 20 39	18:36 18:67 20:42 19:15 22:96	Buxar Dehree, Bhubooah, Sasseram. Arrah. Mohaniah,	Shahabad	SOUTH BEHAR.
	0°58 0°06 1°13 0°50 	1'00 2'98 0'31 1'11 0'25 0'36 0'27	1-97 1:04 0:21 1:41 0:85	0°05 1°08 0°82 2°50 0°10 0°35 0°30 0°30	1'44 0'08 1'01 1'00	1°30 1°38 0°09 0°41 3°20 1°00 1°20 2°80	0°65 1°28 1°63 0°57 0°50 0°40 0°80	0°16 0°53 0°19 0°30 2°50 0°70 	0.05 0.06 0.19 0.03 1.00 0.35 0.33 0.33	0°13 0°35 0°69 0°51 4°10 0°90 0°50	20 23 23 23 21 89 26 17 23 16	15'4 19'4 14'8 14'5 ? ? ? ?	14.01 21.57 18.95 16.25 18.009 11.99 9.68 13.87 14.00	19:39 11:81 11:87 12:23 P P P P	2'43 4'36 4'36 3'03 4'10? 1'22 1'32 1'76 3'25	24'44 23'97 30'03 34'12 23'03 16'00 16'67 26'43 23'48	20 79 21 16 21 07 20 41 9 1	Aurungabad Gya. Nowadah. Jehanabad. Arwal. Daudnagar. Sheerghati. Rajauti. Pakri Bara- wan.	Gyn.	
	0.28	0°35 0°38 0°96 0°30 1°65 0°10	0°57 1°10 1°03 0°80 3°11 0°79	0.08 0.20 0.60 0.80 0.35 0.21	0°88 1°90 0°77 0°70 1°43 0°18	1'80 1'85 3'26 3'50 0'32	0°11 0°10 0°12 0°42 0°22	2°78 0°81 0°86 1°20 0°07 0°08	0°12 0°61 0°12 0°65 0°65 0°87	1°74 0°25 0°92 0°62 0°65	24 21 22 18 22 21	18'4	17:41 14:85 15:56 13:76 22:48 13:70	10.60 11.71 13.04 12.78 P	2°86 1°95 3°26 3°50 4°12 2°51	28.71 25.70 28.18 23.14 37.33 30.80	20°83 21°06 23°12 21°29 P	Patna Dinapore, Behar, Barrh, Bickram, Hilsa,	Patns.	
	0.05 0.00 0.10	0:13 0:15 1:26 2:48	1°28 2°00 3′58 0′66 0′63	2'46 0'52 1'50 2'49	0°82 0 84 2 24 1°25 0°61	8:27 5:60 2:16 6:55	0°58 0°40 0°07 	1°29 0°60 0°35 1°27 0°40	1.20 0.70 2.72 2.85 2.60	0°07 0°18 0°46	21 21 23 13 9	16'8 19'4 18'1 P	14.08 18.63 21.53 28.30 11.64	11:39 11:72 12:30 9	3'27 5'60 3'11 6'55 2'70	27°33 37°42 41°24 45°80 26°83	21.44 22.40 23.02 2	Begooserai Monghyr. Jamui. Gogra. Sheikpura	Monghyr,	
8	0.03 1.20 0.10	1°59 0°76 0°30	0°90 0°50 2°06	0'90 0'67 0'40 4'7.2	 0.04 1.14	2:11 1:10 2:50 13:83	0°37 0°32 0°50	1.85 0.64 0.82	0.93 0.26 	0°66 0°85 0°22	23 21 23 10	18'8 18'0 P	17:83 12:89 20:93 28:29	11°56 10°42 9	2°11 1°57 7°50 13°83	33°26 28°58 39°66 42°33	24.74 22.48 ? ?	Bhagulpore Banka. Kolgang. Bangaon,	South Bhagul- pore.	
	0°53 1°70 0°67 0°86 1°4: 1°72	0'60 0'04 0'23 0'06	0°29 0°20 1°36 0°07 0°19 1°90	0°18 0°65 0°28 2°08 0°53 0°72 0°12	0°82 0°24 0°40 1°20 0°25	0:91 2:50 1:18 1:13 1:22 0:20 1:85 0:42	0°03 0°39 0°15 0°06 0°23 0°38 0°38	0°36 0°75 0°31 0°76 0°27 1°11 	0°25 0°25 0°35 0°39 0°32 8°72 8°23 1°26 0°61	0°40 0°20 0°10 0°40 0°21 1°22 0°86	18 21 27 27 25 25 25	16'5 17'4 17'7 24'2 21'7 20'4 P	10.07 17.18 13.40 18.11 17.50 16.41 10.81	12.91 11.21 13.56 13.49 13.64 13.64 ?	2 37 2 65 2 65 2 65 3 91 3 72 2 55 2 127 1 66	27'96 33'47 43'50 36'79 50'88 40'38	20°88 23°24 81°32 28°91 27°31 27°16 ?	Rajmehal Godda. Pakour. Nya Doomka. Deoghur. Jambara. Mohagama. Nanihat.	Sonthal Pergunnaha.	
	1.69	2.00	0.70	0.42	0.22	0.43	0.02	0.70	2.73	0.05	27	22'3 24'3	16:38	13.55	2.73	36*45	25·75 25·00	Pachamba (Giridi). Hazaribagh.	Hazaribagh	CHUTIA NAGPUB.
	0°52 0°80 1°70 1°50 0°54 0°75	0'50 1'10 2'10 6'40 0'69	0°54 2°70 0°20 2°55 1°74	0°44 0°90 1°03 0°08 2°15 2°10	0°85 3'80 0°24 0°37 0°75 1°00	0°70 0°10 1°90 0°56 0°33	0°54 0°70 0°40 0°60 0°36	0°60 0°00 2°20 0°27 1°23	0°28 0°40 0°15 0°50 1°25	0°20 0°04 0°53	22 28 25 23 24	19.7 18.5 21.7 P	20°50 17°81 17°32 17°04 11°47	12:78 16:87 ? ? ?	3°39 2°86 3°80 2°35 2°55 2°57	30'48 24'01 35'60 27'42 27'37 35'34	25 48 31 28 9	Semtagurah. Mahudi Hills. Jhoomrah Hills Barhi. Chatra. Karagdeha. Ramghar.		
	1'81 1'91 4'34 1'00 1'02 1'82 0'58	2·25 0·72 0·17 0·06	0'39 0'42 0'06 0'60 3'85 0'10	0.09 0.50 0.55	0°21 1°20 0°51	0.70 2.64 0.01 0.90 0.62	0°45 0°63	0'48 1'20 1'10 1'60 0'07	0.75 0.77 0.50 2.00 1.00	0°45 2°85 0°66 1°02	12 24 23 20 10 24	23-2 28-9 19-5 P	14-77 16-62 18-12 11-40 15-25 9-01	12:49 12:42 12:01 2 9	2°10 8°21 2°85 4'46 2°00 2°50 8°85 1°25	25°36 30°50 28°01 22°20 22°59	25:04 26:15 22:38 P P P	Lohardugga Ranchi. Paismow. Silli. Balumat. Hoseinabad. Garwah.	Lohardugga.	
		0.10	0-30	0.08		0.02	0.11	0.50	0.72	0.22	19	21.7	9.42	14'00	2.43	17·52 23·83	29.29	Chyebassa Chak-adhar-	Singbhoom.	
	0.78	1.32	3.12	0°04 0°50		0.25	5.00	0.12	0.70	0.07	18	9	16.88	P	2°90 3°15	36:46 35:91	9 9	pore. Ghatsila. Baharagura.		150
	0°49 1°85 0°85	0.08	0:37 0:63 1:67	0°91 0°40	0°68 0°82	0:42 1:42 0:20	0.82	0.18 0.13 0.18	0.22 0.40 1.04	0°28 0°16 1°05	24 26 52	\$1.2 51.5	11'42 10'14 17'70	11:44 11:87 P	3°11 1°55 4°14	29°27 23°29 34°88	26.03 23.33 9	Purulia Gobindpore Raghunath-	Manbhoom.	
	0.68 1.52 0.68	0'15	0:95 2:79 0:28	0.70	0°52 0°23	1.55	0.90 1.09 0.19	1°00 1°32 0°33	1°50 1°10 2°60	0'80 0'37 0'27	28 19 23	9 9 P	17.60 17.26 13.60	9. 31. 31	2°30 2°79 2°60	31.69 30.29 29.58	200	pore. Barrabhoom. Jhalda. Chas.		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF JULY 1890.

THE chief peculiarities in the weather of July have been-

1. The uniformly low pressure which obtained during the greater part of the month, the only occasion when excess continued for any considerable time being during the last week, when there was excess of from two to four hundredths of an inch in the southern districts, and of less than two hundredths in North Bengal, Behar and Chutia Nagpur. The mean defect for the month was generally between '01 inch and '02 inch in Lower Bengal, and between '02 inch and '05 inch in the northern districts.

and between '02 inch and '05 inch in the northern districts.

2. Low temperature has prevailed. The month commenced with almost normal temperature, but after the first week there was always a considerable deficiency, especially in the northern half of the province, where unusually heavy rain has been falling. Defect increased towards the end of the month, and during the last week varied from 1.6° in Orissa to 3.6° in North Behar. The mean defect for the month is therefore considerable, being between '6°

and 1° in Lower Bengal and about 1.5° in the northern half.

3. Ordinary monsoon weather has prevailed with practically no intervals of disturbed weather. Rain has fallen in Orissa and South West Bengal on about the normal number of days, but in Behar and North Bengal the number is from four to six above the average, while the amount of rain received has been very largely above the normal in the Northern districts, especially over the Himalayas, and considerably above in the other districts, except Orissa and South-West Bengal.

4. The absence of the small cyclonic storms which usually form during the rainy season has been very marked, one depression occurring at the beginning of the month and

another very unimportant whirl about the middle.

Cyclonic storm from June, 28th, to July, 2nd.—The depression began to form on June, 28th, and then appeared as a local shallow low pressure area over Orissa and South-West Bengal, the lowest pressure within it being 29·585 inches at Balasore. Westerly winds were blowing at Cuttack and False Point, and the easterly element in directions had become more pronunced in South-West Bengal, while rainfall was only light and local in Lower Bengal. On the following day pressure fell briskly everywhere; the cyclonic circulation became more distinct and the centre was still over the land between Balasore and Calcutta. After this a somewhat rapid deepening set in to the south-east of the depression, the largest changes being in Arakan, and a trough of low pressure extended from the Bay in a northerly direction. The centre was to the east of False Point and south of Saugor Island, and stormy weather, with heavy rain squalls, prevailed over the northern half of the Bay, but over the greater part of Bengal rainfall had almost ceased. On the 1st of July the storm had developed, the greatest difference of pressure from the south-east to north-west of the Bay being nearly half an inch. Gradients were therefore steeper, and a slow westerly motion was taking the depression towards the Orissa coast, so as to pass near False Point. The storm area crossed the coast during the evening of this day, and after the passage of the centre, when pressure at False Point fell to 29·09 inches, a southerly gale blew at all the coast stations. A very rapid rise of pressure followed immediately afterwards, not only in the north-west of the Bay, but over the whole of Bengal, and from being largely below the normal an excess of about two-tenths of an inch accumulated in 28 hours. From about 9 p.m. on the 1st, when the storm centre was near False Point, to 8 a.m. on the 2nd, pressure rose about half an inch, and in the eastern districts of Bengal the rise amounted to nearly two-tenths of an inch. These rapid changes of pressure seem to have had an imp

After the rapid rise of pressure, which continued till the 4th, a slow steady fall set in over the whole province, and lowest pressure being in North Bengal and gradients rather steep, strong south-westerly winds blew at the head of the Bay and in Lower Bengal. Westerly winds blew for a day or two in the northern districts, but by the 7th easterly directions again prevailed, in consequence of the displacement of the area of lowest pressure towards the west. From this date till the 18th ordinary monsoon weather was unbroken, and is noteworthy only because of the weak monsoon which blew in the west of the Bay, while in East and North Bengal and Behar very heavy rain fell almost without interruption. Falls were usually heavy in the Darjeeling Hills and adjacent plains from the 14th to the 18th, with the exception of the 16th. The absence of rain in the western districts was probably due to the comparatively dry westerly current which had been blowing from entral India, generally extending as far east as the centre of South-West Bengal, and on the 17th as far as Rungpore and Dhubri.

From the 19th till nearly the end of the month conditions were influenced by the shallow depression which, commencing to form in the north-west corner of the Bay on that day, moved towards the mouth of the Hooghly, and thence in a north-westerly direction over Chutia Nagpur. On the 20th the centre was close to Saugor Island, and pressure was under 29.4 inches; on the 21st the area of lowest pressure lay to the west of Burdwan and was almost unchanged in intensity from the previous day; while by 8 a.m. on the following day it had passed out of the province and lay well to the west of Hazaribagh and Gya. It

remained in the North-Western Provinces till the 24th when it filled up, the trough of low pressure at the same time closing up towards the Himalayas, and a steady south-westerly current blew over the whole province, giving heavy rain in all districts. On the 28th pressure fell briskly, and the distribution becoming more normal and uniform, easterly winds

Strength of the monsoon.—The strength of the monsoon current blowing from the Bay over Bengal from year to year can only be judged by the wind velocities at the coast stations. In the table below are given the means of the actual daily wind velocities for July 1889 and 1890, compared with the normal values for the same month at representative stations on or near the coast line from Akyab to Gopalpore, at which wind observations have been taken for a sufficient length of time to give reliable averages. It will be seen that the only stations where velocity is under the average are Chittagong and Calcutta, and that the difference for these two is small while at all the others, except Akyab, there has been a large excess, amounting at Gopalpore to 110 miles per day and at Saugor Island to 96 miles. The strength of the monsoon current during this year has so far, therefore, been considerably above that of average years.

STATIONS.	Actual average wind velocity for July 1889.	Actual average wind velocity for July 1890.	Normal wind velocity in July.	Variation of wind velocity for July 1890 from the normal.
Akyab Chittagong Dacca Calcutta Saugor Island False Point Gopalpur	Miles per day. 120 132 138 91 408 303 348	Miles per day. 120 149 202 102 502 324 410	Miles per day. 105 162 145 130 406 280 300	+ 15 13 + 57 28 + 96 + 44 +110

Pressure.—Changes were very large at the beginning of the month, and on the 1st a defect of nearly a quarter of an inch had accumlated in the neighbourhood of the depression. On the 2nd a very rapid rise was general in all districts except South Behar, exceeding 2 inch in parts of Assam and East Bengal and 15 inch in Orissa, South-West Bengal, and North Bengal. On the 3rd the rise was still more rapid in Orissa and Chutia Nagpur, and varied from 22 inch to 28 inch, but in the other districts it was much smaller and practically zero in North Bengal and Assam. On the 4th a very rapid fall prevailed, the resulting distribution being almost normal. As these rapid changes counterbalanced each other, the mean pressure during these days did not differ much from the normal, and as ordinary small oscillations followed till the middle of the month, large differences from the normal did not again occur. A rapid fall occurred on the 17th, followed by a slow steady rise for some days, after which small upward and downward changes rarely exceeding a twentieth of an inch, alternated till the end of the month. The means for the month are very nearly normal in East Bengal, and below the normal in the other districts by amounts varying from one to four hundredths of an inch.

Temperature—During the first five days was two or three degrees above the normal over the greater part of the province, but after that it has been almost without a break, considerably below in the northern districts, and slightly below in Lower Bengal except in Orissa and the adjacent part of South-West Bengal where, owing to the more scattered rainfall, temperature was at times slightly in excess. Defect in North Bengal and North Behar was very large at times, and during the last week the day temperatures were unusually low, the difference from the normal maximum temperature being at times very little under 10°, while defect in mean temperature was from 4° to 6°. On the 28th maximum temperature at Purneah was 10° below the normal, at Patna 9.8°, Arrah 9.1°, Rungpore 8.9°, and Chupra 8.6°; on the 29th at Arrah 9.1°, Buxar 8.7° and Chupra 8.5°; on the 30th at Durbhunga, Motihari, Patna, and Buxar defect was 8° or more. The monthly means, in consequence of these steady low temperatures, are largely below the normal in all districts except in Orissa and South-West Bengal, where defect is, however, over half a degree. Defect in South Behar is 1.6°, in North Behar, Chutia Nagpur, and Assam 1.4°, and in East and North Bengal 9°.

Rainfall—Has been unusually heavy in all the northern districts, and moderately heavy in Chutia Nagpur and East Bengal, but in Orissa and South-West Bengal the falls have been very nearly normal, defect being nearly half an inch in the former and excess only 2 inch in the latter, with an average fall of about 12 inches. The average falls in the other districts are very uniform, North Behar receiving 21 45, East Bengal 19 87, North Bengal 18, South Behar 16 28, and Chutia Nagpur 15 1 inches. Excess is largest in North Behar, amounting there to 9 1 inches, and in the other districts it varies from 4 26 inches in South Behar to 12 inches in Chutia Nagpur. The districts where the amounts reported from the various stations show the greatest diversity are North Bengal and East Bengal, falls at the hill stations in the former rising to more than 70 inches, while in the plains one or two stations report about 10 inches. In East Bengal the range is from 10 inches to a little over 50 inches.

The comparison of the actual rainfall of the seven meteorological divisions of the province is most accurately shown in the form of a percentage. The figures representing the rainfall for the month calculated in this way are included in the table below under the heading of July. This table gives a condensed summary of the rainfall statistics of the present year up to date for each division, the first seven columns giving the actual rainfall in each month expressed as a percentage of the normal, while the eighth column shows the actual rainfall for the first seven months expressed as a percentage of the normal for the same period. It will be seen that, with the exception of East Bengal in June and Orissa in July, the rainfall during the monsoon season has been considerably in excess, and that, notwithstanding the very deficient rainfall during the early part of the year, the average amount from the beginning of the year has been exceeded in all districts by 2 to 4 per cent. in Lower Bengal, 9 per cent. in Chutia Nagpur, 17 per cent. in North Bengal, and 40 per cent. in Behar.

Meteorological Divisions.	January.	February.	March.	April.	May.	June.	July.	Actual rainfall of first seven months of 1890, expressed as a percentage of the normal fall for the period.
Orissa	24 98	5	216	20	99 87	124	97	103 104
South-West Bengal East Bengal	181	Nil	39 70	75 122	102	141 89	120	102
North Bengal	98	Nil	26	155	81	132	129	117
North Behar	38	2	26 25	40	95	140	174	141
South Behar	Nil	5 Nil	63	80	95	183	136	138
Chutia Nagpur	Nil	Nil	120	1	65	132	116	109

With the exception of the south of Orissa and the south-east corner of East Bengal, actual falls have generally increased from the south towards the north. Over a band of country, including the south of Chutia Nagpur, Balasore, the greater part of Midnapur and the 24-Pergunnahs, Howrah, Hooghly, and Jessore, falls have been under 10 inches, and in the other parts of these districts between 10 and 20 inches, frequently about 15 inches. In Chittagong amounts vary from 33 8 at Satkanya to 51 28 inches at Chittagong station, in Chittagong Hill Tracts and Noakholly from 20 to 25 inches, but Hurrishpur reports 46 2 inches. Elsewhere in East Bengal falls are generally between 15 and 20 inches, increasing in the Mymensingh district where the heaviest fall is 29 9 inches at Durgapur. In Pubna, Bogra, Rajshahye, Maldah, Dinagepur, and Rungpur falls are between 10 and 15 inches, but in Julpigoree, Cooch Behar, and the Darjeeling Hills rainfall has been unusually heavy, Kurseong receiving 71 4, Silliguri 69 6, Buxa 60, Darjeeling, Bhagatpur and Kalimpong between 50 and 60, Julpigoree, Fallacatta, and Matabhanga more than 40 inches. In North Behar amounts have been very uniform, very rarely under 20 inches, and over 25 at Kaliaganj, Soopool, and Bagaha only. In South Behar falls are generally between 12 and 18 inches, the stations receiving more than 20 inches being Arrah 28, Gya 21 6, Bickram 22 5, Jamui 21 5, Gogri and Bongaon 28 and Kolgong 21 inches.

Rainfall has been deficient over a very small portion of the country, and as in those districts where these relatively light falls have been recorded, others considerably above the normal have occurred, the means are below the normal in Orissa only. The districts where there is either a small excess or deficient rainfall are Orissa (defect large in Balasore); Midnapur, 24-Pergunnahs, Howrah, the greater part of Burdwan, Nuddea, Khoolna and Jessore in South-West Bengal; Backergunge, Furreedpore, and Dacca in East Bengal; Bogra and Rungpore in North Bengal; Singbhoom and Manbhoom in Chutia Nagpur. On the other hand, excess is more than 5 inches at scattered stations in Lower Bengal and South Behar, from 5 to 10 inches at almost all stations in North Behar, 12:87 inches at Buxa, 15:4 at Julpigoree, 18:9 at Matabhanga, 25:29 at Kalimpong, 28:27 at Darjeeling, and 36:78 at Silliguri.

The following table gives full data for the comparison of the actual and normal rainfall for July in all districts. The first column gives the normal rainfall, the second the actual district rainfall as determined from the weighted rainfalls of the month, the third expresses

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the percentage of actual to normal rainfall, and the fourth the excess or defect per cent. of normal:—

Percentage Table for July 1890	Percentage	Table	for	July	1890
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Division.		District			Normal district rainfall for July.	Actual district rainfall for July 1896.	Percentage of actual to normal rainfall.	Percentage ex- eess (+), defect (-).
	(Peoree			10.65	16.79	158	+ 58
Orissa	3	Cuttack	***	S.P	12.20	13.27	109	+ 9
Orissa	(Balasore	***	***	12.20	6.72	55	- 45
		Midnapore	***	***	13.76	6:47	47	- 53
	1000	24-Pergunnahs	***	***	12.97	8.94	69	- 31
		Howrah	444	***	13.13	7.84	55	- 45
	A CAMPAGE	Hooghly	***	***	12.71	9.74	77	- 23
			***	***	11.80	16.56	140	+ 60
South-West Ber	oral 1	Bankoora	***	***	13.12	16.20	123	+ 23
South- 11 est Der		Beerbhoom	***	***	12.85	14.92	116	+ 16
	1	Nuddea	***	400	10.48	11.79	112	+ 12
	- 1419	Khoolna	***	***	13.45	12.95	96	- 4
	10000	Jessore	***	***	10.55	10.84	103	+ 3
	-	Moorshedabad	*1*	***	11.00	17.37	158	+ 58
		Chittagong	***	***	28.52	49.23	173	+ 73
	20025	Backergunge	***	***	18.78	19.70	105	+ 5
	UGAS I	Noakholly	***	***	21.82	29.26	134	+ 34
East Bengal	4	Furreedpore	***	***	12:49	11.09	89	- 11
		Dacca	***		13.84	15.35	111	+ 11
	0.00	Tipperah	***		15.27	17 82	117	+ 17
THE RESERVE OF THE PARTY OF THE	l	Mymensingh	***		13:55	17.86	132	+ 32
	1	Pubna		ren	10.83	10.60	98	- 2
		Bogra		***	13.69	13.39	98	- 2
	1000	Rajshahye			11.82	20.28	174	+ 74
	100	Maldah			11.50	11.29	98	- 2
North Bengal		Dinagepore	***	***	12.14	16.80	138	+ 38
	62000	Rungpore			13.90	14:30	103	+ 3
	1500	Cooch Behar			20.09	29.08	145	+ 43
		Julpigoree	A Ship		26.06	41.46	159	+ 59
		Darjeeling			30.36	58.96	194	+ 94
	(Purneah			15.47	21.44	139	+ 39
		North Bhagulpore			11.61	25.20	217	+117
		Durbhunga		***	11.60	23.12	191	+ 91
North Behar	1	Mozufferpore			11.26	20.44	181	+ 81
	100	Chumparun			12:12	23.25	192	+ 92
		Sarun			11:41	17:56	154	+ 54
	7	Shahabad			11.97	16.72	140	+ 40
	250	Gya	Carpoles,		11.83	18:14	153	+ 53
	UPS 1	Patna		***	12.12	15.66	129	+ 29
South Behar	1	Monghyr	***		11.89	18.88	159	+ 59
	W OF L	South Bhagulpore	10.150		10.91	14.72	135	+ 35
HERITA THEO	Water !	Sonthal Pergunnahs		16	12.97	15.99	123	+ 23
	7	Hazaribagh			13.40	17:68	132	+ 32
	1	Lohardugga			12.94	16:13	125	+ 25
Chutia Nagpur	3	Singbhoom	ell Cirus		14.00	9.42	67	- 33
WAS DESCRIBED TO SHEET WHEN	EURAUN (I	Manbhoom			11.53	11.16	97	- 3

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of July 1890:—

ment something and						PEMPE	BATUR	B.				1	CAINE	LL.			
1 1				g month.	month.		erages month		th above of month.		Of mor	ith.	Rair	ny day	4.	Sinc May	e 15th
Division				Highest observed during month.	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of month above or below normal mean of mouth	Average.	Normal average.	Variation.	Average number in month.	Normal average num- ber in month.	Variation.	Average.	Normal average,
Orissa			•••	94'9	72'8	86.9	78'6	82.7	-07	12.05	12.48	-0.43	17.1	17'9	-0.8	26:27	23'4
South-West Bengal	••	•••		96.3	74'8	88'5	78'3	83'4	-0.6	12.20	12.00	+0.20	21.3	19.9	+13	30.26	24.8
East Bengal				91.7	70.0	85.8	76.7	81'3	-0-9	19.87	16.21	+3'36	25.2	22'3	+2'9	43'02	39.10
North Bengal		***	***	95'8	74'1	87.8	78'0	82'9	-0.9	18'02	14'04	+3.98	23.7	18'5	+52	45-20	37:08
North Behar		***	***	95*2	74'9	88.1	78 2	83.2	-1'4	21.45	12'34	+9.11	21.4	15.7	+5.7	35.72	22.91
South Behar	•••			99.0	70.0	87'4	78'1	82.8	-1.6	16.58	12.02	+4.26	99.3	17.8	+4'5	30.11	20.32
Chutia Nagpur	***	***		87.5*	69.4	82.3*	72.8*	77.8	-1.4	15'10	13.09	+2.01	23.7	21'4	+2.3	20'78	22'74
Assam				97.1	74'3	87.6	77'1	82'4	-1'4		Variable.	S (1)		100	SOU C		

METEOROLOGICAL OFFICE, BENGAL;
The 12th August 1890.

^{*} Chyebassa not included.

C. LITTLE,

Meteorological Report of the Province of Bengal

WEST BERGAL. OLISSA. METROROLOGICAL DIVISION	DISTRICT. Pooree Cuttack Balasore South-West Midnapore South 24-Pergumahs Midnapore 24-Pergumahs Howrah	Pooree Gopalpore Cuttack Balasore Saugor Island	-0	Men reduced of 50.620 See-Jevel. 29.620 See-Jevel.	Variation from mean.	Prevailing direc-	Mean wind ve. 'c	Highest during week.		it during	TEMPREA	temperature.	fean minimum temperature of week,	ily tem-	n from mean	A. M.,
WEST BERGAL. ORISSA.	Pooree	Pooree Gopalpore False Point Cuttack Balasore	Wean paromet 29:628 29:628 29:628 29:575	Mean reduced sea-level.	Variation mean.	Cala tion.	ean wind	131900000000		2		natimum rature.	ninimum rature of	193	110/15/000	8 A.M.,
WEST BENGAL.	Cuttack Balasore South-Wast Midnapore South 24-Pergumahs 24-Pergumahs Howrah	Gopalpore False Point Cuttack Balasore	29°628 29°575	29.635	+'018	Calm		H	Date.	Lowest week.	Date.	Mean I tempe	Mean n tempe week,	Mean daily perature weak,	Variation normal of week.	B
WEST BENGAL.	Cuttack Balasore South-Wast Midnapore South 24-Pergumahs 24-Pergumahs Howrah	Cuttack Balasore	29.575	29.650		N	250 226	89°7 88°2	3 to 5 Aug.	78°1 78°8	7th Aug.	89°0 85°5	79.8	84'2	-1-2	821
WEST BENGAL.	Balasore	Balasore	- Sirver	N. Carrier	+*035	Variable	216.0	87'4	5th to 7th	77'6	Aug.	86.0	78'5	52.7	+0.1	837
WEST BENGAL.	Balasore		29*608	29.656	+'048	Variable	54'3	91.9	3rd Aug.	77-9	7th Aug.	90.5	79'8	84'8	+1.0	83.9
WEST	Midnapore 24-Pergunnahs Howrah	Saugor Island	20 000	29:667	+ '068	Variable	85'9	90'4	6th .,	75'7	6th "	88.2	76'8	82-7	+0.1	82.6
WEST	Midnapore 24-Pergunuahs} Howrah}	100A	29.643	29.669	+.060	SSE	277.7	91.5	6th .,	78:0	8th	89-3	79'3	84'3	+0.1	100
WEST	24-Pergunnahs}	Midnapora	29.125	29.675	+.063	Variable	138-7*	92.3		77.1	4th, 6th &	89.7	77-8	83 8		81 %
WEST	Howrah			N. C.		1	100 4	220	etn "	",	7th Aug.			60.8	+0.6	81.9
WEST	MOOKING	Calcutta	29'657	29.679	+.087	South- easterly	61.7	50.0	5th ,,	75.7	7th "	88.5	76.9	82.6	-0.5	80'9
WEST	Burdwan	Burdwan		7		8	87'6	92.6	6th ,,	78'4	3rd & 7th	89.9	79.4	84'6	+0.5	
A.		Bankoora	29.353	29.652	+ 081	Calm	76.0	92.1	6th	77'1	ard Aug.	88'4	78.2	83'3	+0.3	813
	Beerbhoom }	Rancegunge	29:338	29.673	+*091	SSE	58'3	92.5	deb.	77:1		88*2	77:0	83.1		80'9
Sourn.	West Burdwan		29*615	29.682	+ 084		871				第二条用 处	1		1	-0.3	80.5
Se	3100ranegasas in	Berhampore	29.680	29.679	+ .098	SSE	121'3	90.6	6th "	76'3	6th ,,	88'0	78.0	8310	-0.7	79%
		Krishnaghur			300	SUE TELL	9		ALCONO.	The same				9	2	1
1	Khoolna}	Jessore	29.655	29.689	+'070	P	The state of	91.2	5th ,,	77'4	6th & 7th Aug.	88 6	78'6	83.6	-0.2	811
1	Chittegong	Chittagong	29.641	29.732	+*055	SSE	93.6	87.6	3rd to 6th	72'5	8th ,,	87'4	72.9	80.2	-0'7	801
	Chittagong Hill Tracts	Demagiri			14565		0.410	Ubserv	ations not re	ceived.				5,2		
4	Backergunge	Barrisal	29.083	29:695	+ '081	SE	147.6	9013	5th Aug.	76'8	2nd & 6th Aug.	87'4	78'1	82'8	+0.8	817
BMI	Noakholly	Noakholly	29.693	29.736	+*085	SE	DI SI	88'5	5th "	75'3	5th	85'9	77'1	81'5	+0.3	801
EAST BENGAL	Furreedpere	Furreedpore	29:676	29.716	+,090	SE	93.0	88.5	5th ,,	76'9	7th	85'7	79.5	82.6	-0.1	817
EAS	Dicco	Dacca	29:678	29'701	+ '078	South- easterly	123'5	89.6	3rd & 5th Aug.	75.7	7th "	87.7	77'8	82.5	-12	811
		Commillah	29'688	29.734	+ '081	S & South- easterly	168:8	89'9	5th	75:3	7th & 8th Aug.	87.4	76.2	81.8	+0.3	291
		Mymensingh	29.655	29'655	+ 102	SE C-1-	96'8	50.5	6th "	76'1	8th ,	86'1	77.7	81.9	-0.6	801
	DOS.	Bogra	29.620	29.697	+ 077	S & SSE	55'8	91:3	6th ",	76'6	8th "	87.4	78.0	82.7	-0.2	811
4		Serajgunge	29'620	29'690	+105	Variable	100.5	91'3	di b	78:3	a 8th Aug.	84:0	78'9	81.0	-11	501
BESG	Cajenary	lean.	29.549	29'681	+ 138	E & SE	68.9	91.7	200	77:6	6th	86°4	78.6	82.8	-0.1	511
666,234		Dinagepore	29 570	29.690	+*087	Е	72'0	91.6	dete	77.1	2nd "	87.6	78'4	83.0	-1'4	831
North		Rungpore	29.587	29.712	+1090	ESE	60.0	92.8	6th .,	74.7	2nd	88'2	79'5	83'4	-0.3	811
Z	(uluimores)		29*420	29.708	+ '091	9	9	89.9	6th			VALIANTS.	77'6	85.0	-0.3	811
	Cooch Behar	Julpigorse		990						74.1	ard & 4th Aug.	85'8	75.0	80.8	-14	80
		Darjeeling	22.923		+.040	Variable		68.1	6th & 7th Aug.	54.6	3rd	64.6	55.7	60.5	-1.9	60
ej l	North Bhagulpore }	Purneab	291559	29.685	+*080	Calm	38.0	91.2	6th ,,	75'4	2nd ,,	87.0	76.9	82.0	-2.6	82
BRHAR.	Mozufferpore	Mozufferpore	29'480	29'661	11-11	E	159'3	90.3	6th	75.2	5th.,	86.0	77.8	81.9	200	81
E !	Durbhungs	Durbhunga	29.213	29.681	+'086	Easterly	155'0	90'4	6th "	72'5	5th	86'8	76.7	81'8	-2.0	51
NORTH	Chumparun	Motihari	29:460	29*688	+ 107	ENE	173.7	90.5	6th & 7th Aug.	74.9	3rd "	87:3	77'2	82'3	-17	81
	Sarun (Chuprs	29'451	29'645	+'070	E	129.5	89'3	6th "	75.6	5th ,,	86.5	78.6	82.8	-11	81
4.14	Shahabad	Dehree Buxar Arrah	29°298 29°419 29°453	29°648 29°662 29°649	+ '086 + '086 + '088	Calm E Calm	56'0 125'4		6th " 8th " 6th "	76°5 78°8 74°1	5th "	87°1 86°6	78°2 76°8	82.7 80.9	+01	8
BEHAR.	Gya (Gya	20.282	29.661	+'077	E	104.0	90.D	5th ,,	78'8	3rd ,, 2, 3, 6, &	88'4	76.7*	81.8	-2.3	8
	Patna 1	Bankipere	29'475	29.659	+ 071	E	139'5	88'9	5th ,,	74.7	Sth Aug.	86'7	79'3	85'9	-0.9	
	South Shagulpore }	Bhagaipore	39.201	29'004	+.050	Calm	39.0	90.5	6th .,	75.0	2nd	85'0		82.2	-3'2	Ī
SECURITY OF		Doomka	29'177	29'676	+ '092	South-	127'3			A CONTRACTOR			77'5	81'3	-2.3	î
1000			27.668	29.672	+ 008	easterly, Variable	172.0	\$95000	oth & 6th Aug.	000	6th "	86.2	76.5	81'2	-1.2	8
EEJI!	120000000000000000000000000000000000000		11	123 (A)				85.9	oth & 6th Aug.	72'2	6th & 7th Aug.	83.0	72'8	77-9	-0.6	1
	Manbhoom]	Canchee	27.546	29'664	+,069	Calm	110.4	86.2	Sth "	69.9	6th ,,	82.0	71.4	77.2	-0.1	7
announced a second	Singbhoom C	hyebassa	28.898	29.663	+'079	Variable	87:8	92'4	ith	76'2	3rd, 7th &	89'2	76.9	83'1	+0.2	
.)	(8)	ibsngar	29-406	29.742	+1076	swassw	50.8	94.6	th "	75'0	sth Aug.	87.7	77-9	82'8	+2.0 8	
2011	Assam D	hubri 2	29-593	29'711	+ '076	Calm	67.4	86'2 (ith "	74'8 1	and "	83.3	77'0	80.8	-27	
4)	i si	ichar 2	19:024	29.730	+,061	Calm	38'8	91.2	th	76'2 2	nd,7th &	88'3	77'8	82.8	-10	

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the The humber of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by and an overcast sky by 10. The number of the protons sent in by the sub-divisional station for the period in question during the stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

* 1

for the week ending Friday, the 8th of August 1890.

					NU FILE		DISTR	CICT OB	SERVATIO	NS.	Single			
dity	smount week.	ta a						RAIN	NFALL.					
an midity	nd amo	week	OF	WERK.	Sino	e 1st of mon	ith.	Sinc	e 15th May	1890.	number y days.	ays.	Representative station.	District.
at 8 A.M.	Average cloud at 8 A.M. for	Rainfall of week observing station.	Mean for district.	Normal mean.	Mean for district.	Normal mean,	Variation,	Mean for district.	Normal mean.	Variation.	Average nu of rainy d	Normal number of rainy days.		
85 86	61 21	1.55 1.86		2.84		3:35			25'46			4.2	Pooree Gopalpore	Pooree
82	7'3	0.28											False Point	S 1 100166
80	7.6	1'72	0.86	2.77	1.28	3.09	-1.26	28.45	26.75	+1.70	2.8	4'3	Cuttack	. Cuttack
80	4'3	2.70	1'84	2.91	2.27	8.57	-1.30	27.03	27.56	-0.23	8.3	4.3	Balasore .	Balasore
89	9.1	1'84	1.88	3'55	2.57	4'04	-1'47	26.83	31'52	-4'69	8.7	4'5	Saugor Island	South-West Midnapore South 24-Pergunnans
	5.6	0.22	1'01	3.22	1.04	4'44	-3'40	30-28	28'66	+1.63	3.3	4'8	Midnapore	Midnapore
84	3.0	0.85		001				4						C 24-Pergunnaha
88	8.0	2.08	2.86	3.01	5.99	3.63	-0.64	81.31	28.65	+2.68	41	2.0	Calcutta	Hooghly
86	9.0	3.23	2.25	2'43	2.32	2.95	0.63	39.88	24.99	+14'89	4'3	4'4	Burdwan	Burdwan
89	7.7	0.48	0.76	8.21	0.80	4'43	-8.63	33-65	29.70	+3.95	2.8	4.2	Dankassa	Bankoora
	6.7	2.02	2.02	2.65	2.16	3.20	-1:34	87'16	28.20	+8'66	3.8	5.0	Raneegunge	e Beerbhoom
90				The same of		Description.	-0.89	34.87	26.94	+7*93		4'5	Vanhammana	West Burdwan
95	9.1	1.26	2.21	3.08	2.89	8:78	-0.89	30'14	26.54	+8.90	4.6	4.4	Walshaashaa	Moorshedabad
*	8.4	3.74	5.55	2.30	2.23	2.75		array.		7 1	State of the			Nuddea
91	9.0	1.80	1.84	2.84	2.07	3.48	-1'41	83.03	80.38	+2.65	4.4	4.7	Jessore	
88	6'7	4.95	8.84	6 62	3'47	7:73	-4'26	81.48	78.73	+7'75	4.8	5.8	Chittagong .	Chittagong
7/4			2 444	4'20		4'74			45'84			5.8	Demagiri	Chittagoog Hill Tract
Tank	7:6	2.07	2.02	4.21	2:69	4-97	-2.28	44'51	46'08	-1.22	4.2	5*8	Barrisal	Backergunge
90	4'3	2.68	4'63	6:68	4'94	7.62	-2.68	58'54	62.98	-4'44	510	6.0	Noakholly	Noakholly
89	6.9	1.06	1.03	2.96	1'13	3'48	-2.35	24.89	32.32	-7'43	2.7	4.8	Furreedpore	Furreedpore
89	8.7	4'41	3.22	3'34	3.75	8.96	-0.31	40.40	85°27	+5.18	3.8	5.8	Dacos	Dacca
90	6.0	3.02	2.50	4'13	2.20	4.80	-5.30	40.19	39.30	+0.89	4.2	5'4	Commiliah	Tipperah
93	8'0	2:36	2.53	8-20	2.96	8.71	-0.75	47'19	39.23	+7'66	3.6	5.0	Mymensingh .	Mymensingh
89	6'4	2'71	1.86	2.78	8'17	8.08	+0.09	37'36	33.30	+4'06	4.3	4/6	Bogra	Bogra
94	8.0	1.08	0.92	2.00	1'43	2'45	-1.62	28.71	27.08	+0.43	375	4'2		Pubna
88	8.3	2.51	1.14	2.27	2.26	8.50	-0'94	44.01	29.16	+14.85	4.0	4.4	Rampore Beaule	
87	4.6	2.30	2.08	2:73	4.23	3.10	+1:34	29.21	29.84	-0.33	4'5	47		Maldah
89	7.7	4 70	3'41	2.85	4'66	3.07	+1'59	41'45	82'80	+8.62	3.0	4.8	The Control of the Co	Dinagepore
87	8.1	2.08	1'83	2'82	4'32	3.10	+ 1.22		45'99	+3.82	3.0	4.2	Rungpore .	Rungpore
93	21	8.69	8,80	5.38	5:45	5.63	-0.47	83'97	66-38	+17 59	8.8	6.0	Julpigoree	{ Julpigoree
94	9.4	710	5'52	7.22	6.24	7.94	-1.50	103.79	75'47	+28*32	5.3	6.4	Darjeeling	Darjeeling Hill Tract
	1 Pay			1		3.20	+0.81	45'82	31.84	+13.88	3'8	4'4	Purneah	C Purneah
88	6.3	8'56	3.90	3.10	4:37		+0.91	34.00						
94	E-9	4'65	3.50	2.44	3.84	2.93	199		23.16	+10.00	2.0	4.0		Mozufferpore
89	6.9	4.02	4.18	2:49	4.19	2.86	+1'33	30.18	23.78	+15'40	5.0	3.8	Mathant	Durbhunga
87	7.4	2.27	5.90	2.65	2.00	3.12	-0.72	42.66	24.78	+17'88	4.2	3.8	Channe	Chumparun
90	4.6	2.88		2.92		3.03	The second		22.72			38	Debres	
89 98	6.3	0°51 4°11	2:27	2.80	2.68	3:38	-0.70	30.04	20.59	+9'45	5.5	3.7	Buxar	Shahabad
90	8.7	5.83	Marin .				4.400	00100	100.00	+10.76	43	3.8	Own	Geo
87	7.0	0.89	1.35	2.89	1.85	- 3'40	-1'58	33.39	22.63	+5.94	8.2	8.8	Deskinson	Potes
88	9.8	3.79	3.56	2'41	3'41	8.00	+0'41	28'60	22.66					South Bhagulpere
90	8.9	3 31	1.65	2.72	3.53	8.58	-0.02	34'94	23.28	+11.36	3.8	4.3	Bhagulpore	Monghyr
87	4.6	6.20	2.87	2.84	4'35	3.59	+1*09	87.77	27.65	+10°12	5.0	4'5	Doomks .	Sonthal Pergunnaha
91	10.0	1.93	MARCH	3:11		3.04		HELL	26.96			5.0	Hazaribagh .	Hazaribagh
88	9.3	1.98 \$	2.22	8'48 5'39	2.04	4'34 4'24	-1'30 -3'24	27°76 25°55	26'46 26'14	+1*30	4·7 4·0	5°4 5°2	} Ranchi	{ Loharduggs
		1	0.99		1 00		E 7(2)			2011211			Charles and a second	Singhhoors
86	7:6	1.03	0.78	3'86	0.84	4.71	-3.77	22'49	20 89	-7'40	2'0	5.7	Chyebassa .	
92	9.4	3.07	25.74				1000	9	With the	3000	1		Sibsagar Dhubri	Assam
93	9.6	1.00	1	1999					CHARUS .					
80	91	0.95											Silchar	

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.

denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the ourmal means denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall at the sub-divisional 17 years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 8th of August 1890.

				41.5	R	INFALL				To	TAL				
Meteorological division.	District.	Station,	Saturday, 2nd August.	Sunday. 3rd August.	Monday, 4th August.	Tuesday, 5th August.	Wednesday, 6th August.	Thursday, 7th August.	Friday, 8th August.	Number of rainy days.	Rainfall of week.	Total rainfall since 1st of month.	Average total rain- fall from 1st of month.	Total rainfail since 15th May 1890,	Average rainfall from 15th May to date.
ORINUA	Pooree	Pooree Khurdah Banpur False Point Gop Salpara Pipli		0.00	0.04 0.01 0.35 0.12	0°30 0°46 	0°42 0°28 0°40	1.08 [0.21 0.14	0.30	3	1'65 1'80 0'56	1°86 1°30 0°85	2°83 3°50 3°69 3°38 9	27°80 40°49 125°83	22.70 27.02 22.36 25.84 P
	Cuttach	Jagatsingpore Banki Cuttack Kendrapara Jajpore Dharmsala Salipore	0.13 0.35		0.80	0°15 0°18 0°70	0°20 0°10 0°09 0°70 0°22	0°55 0°96 0°20 0°43 0°30	0.80	2 4 4 1	0.73 1.89 0.62 0.43	0.73 1.89 2.09 0.43	3:40 2:52 8:02 3:65 2:85	29*98 38*50 21*67 20*30	23'07 24'53 30'70 26'68 28'63 P
	Balasore	Chandbali Bhuddruck Sorah Balasore Jellasore Baripodah		,0 43	0.03	0°57 0°21	0.93 1.00 0.31 0.41	0'40 0'70 1'20 0'10 0'08	0°23 1°12 0°50 1°11 1°50 0°13	4 1 3 4 4	1.61 1.12 2.20 2.65 2.60 0.83	1:71 1:12 2:20 2:65 2:70 8:28	4.02 8.10 8.63 8.99 3.18 8.47	24*76 26*79 27*48* 28*60 26*45 28*06	26°26 27°13 25°84 29°48 28°03 28°45
SOUTH-WEST BENGAL.	Midnapore	Contai Saugor Island Tumlook Midnapore Ghattal Kukrahaty Garbetta	0°10 0°20	0.14	0.03	0.01	1.00 0.79 0.80 0.16 0.14	0°46 0°21 0°44 0°25 0°12 0°48	0°49 0°81 0°70 0°07 0°83 0°13	4 4 2 4 4 4 2	1'96 1'84 1'60 0'74 0'68 1'26 0'61	2'18 2'44 1'60 0'83 0'68 1'55 0'61	4'40 4'02 4'10 3'98 5'25	26.00 25.89 33.70 29.68 29.11 19.76 31.13	81'08 83'07 27'71 27'24 81'03
	24-Pergunnahs	Diamond Har- bour	0.01 0.04 0.04 0.58		0.08	0·15	0.60 0.53 1.79 1.13 2.15 1.95 0.40	0°10 0°70 0°80 0°30 0°34 0°10	1.02 0.20 0.49 1.85 0.42 0.29 0.54	3 3 5 4 3 5	1'87 1'46 3'11 2'86 2'91 3'28 1'20	3.09 1.79 3.25 2.86 3.19 5.73 1.20	3'69 † 3'45 8'87 3'84 8'19 3'63	28'54 30'65 32'92 27'92 26'51 28'94 32'91	30'49 9 29'89 28'38 28'06 26'48
	Howrah	Howrah Mohesreka (Ooloberiah) Serampore Hooghly	0.01	0.05	0.17	0.11	1.78 0.77 1.36 1.86	0°17 0°04 -0°34 0°05	0°40 1°82 1°35 1°25	5 4 5 8	2:47 2:65 8:28 3:16	2°47 2°65 8°23 8°54	3·42 4·08 3·49 3·57	27°54 89°57 29°15 29°38	28°20 29°25 28°18 27°50
	Burdwan	Culna Eurdwan Cutwa Raneegunge Mankur	0°22 0°24 0°36	0.07	0.08	0.76	0'84 0'02 0'30 0'98 0'52	2°99 0°15 0°17 0°21	0°34 0°90 0°09 0°06 0°71 0°34	4 5 4 4	3.75 1.94 3.63 1.27 2.05 1.13	3.75 1.94 3.72 1.28 2.19 1.71	2:61 3:02 3:25 3:18	38'75 34'54 47'03 38'05 36'03	29'89 23'84 25'24 25'85 27'40
	Bankoors	Bankoora Bishenpore Maliara Khatra Indas Kotalpore Anda Gangajalghati Raipore			0.16		0°15 0°18 1°06 0°29	0'31 0'59 0'11 0'91 1'14 0'30 0'57 1'72	0°15 0°13 0°31 1°14 0°28 0°28	\$ 1 3 4 1 1 1 5 5 2	0°50 0°59 0°39 1°46 1°14 1°14 0°30 1°80 2°29 0°84	0°50 0°59 0°48 1°61 1°14 1°14 0°30 1°86 2°51	4·18 4·91 4·07 4·54 P	35°83 37°97 58°46 38°79 24°32 42°00 47°89 32°46 43°98 54°23	28·26 29·34 28·15 32·97 9
	Beerbhoom an	Sonamukhi Hh. Soory Hetampore Rampore Haut Bolpore Murarai	0.02		0.09	0.30	0'50 2'25	0°87 0°87 0°21 0°10 0°62 1°50	0°47 0°56 1°06 0°06 0°90	3 2 4 3 4	0'89 0'71 4'43 0'77 2'88	0°84 1°01 0°79 4°65 1°78 2°88	8'67 8'54 8'62 9	33°63 39°38 33°33 39°76 35°02 34°61	28-97 31-01 20-55 P
	Nuddea	Ranaghat Kishnaghur Chocadanga Meherpore Kooshtea	0.10 0.32 0.12 0.10	0.07	017	0.03	1:26 2:18 0:21 1:65 0:33	0°25 0°12 0°07 0°25 0°51	0°12 1°36 1°05 0°70 0°08	4 6 4 5 4	1'70 3'80 1'68 2'92 1'02	1.72 4.07 2.16 3.22 1.52	3:57 2:34 2:94 2:30 2:60	81°04 36°62 24°66 30°79 27°58	26°21 24°00 26°91 25°13 28°86
	Khoolna	Satkhira Bagirhat Khoolna Nakipur Rampal	05.6	0.12	0*14		0°57 1°62 1°35 0°16 0°85	0'48 0'23 0'61 0'50 0'64	0.58 0.18 0.00	6 2 4 3 3	1'98 1'85 2'56 0'84 1'55	2°12 2°20 2°56 1°42 1°59	8'82 4'24 8'41 ?	33'97 44'09 35'32 37'24 38'04	32°19 36°47 30°63 P
	Jessors	Naraii Jessore Jhenidah Magoorah Bongong	0°35 0°42 0°03	0.17	0°15 0°16 1 0°75		0°69 0°60 0°41 0°45 0°22	0°30 0°42 0°30 0°57 0°45	0.05 0.27 0.10 0.77 0.20	5 5 5 5 3	1'56 1'86 1'18 2'87 1'17	1'64 2'38 1'30 2'86 1'52	8'58 8'78 8'17 8'06 8'17	30'80 33'43 33'85 27'41 25'23	26 78 31 36 20 11 29 19 27 18
	Moorshedabad	Kandi Berhampore Lalbagh Azimgunge Jungipore Lalgola Jiagungo Akhrigunj Patkabari	2.00 0.522	0.00	0.51	0'21	0°91 1°38 2'21 1°90 2°48 1°15 1°37 2'47	0°45 0°09 0°34 0°10 0°05 0°30 0°05 0°17	0°21 0°05 0°05 0°15	5 4 3 3 5 5 5 2 3	2'48 1'56 2'60 1'61 4'69 2'10 1'42 2'08	2.78 1.96 2.94 2.46 5.29 2.10 1.81 2.74	8:60 4'13 3'53 3'97 3'83 3'64 7	35*98 33*76 38*60 34*62 20*92 36*51 31*42 37*95	27.71 26.02 25.30 27.15 26.61 27.94
BAST BENGAL	Chittagong	Cox's Bazar Chittagong Kutubdia Satkanya Rangamati		1:15	0°08 0°19 4°05	0°20 4°08 1°34 2°85	0.18 0.18 0.19	0°10 0°72 0°51 0°34	0°98 0°80 1°52	4 6 5	1:38 5:36 5:38	1*48 5*46 5*38 7*14	9.08 6.37 9 5.01	87°90 76°00 55°13 47°37	89°01 08°39 7
	Hill Tracts Backergunge	Patuakhally Perozepore Burrisal Shola	0°20 0°05	0.06	0.18	0°25 1°15	0'45 0'35 0'49 0'08	1°05 0°25 0°78 0°97	0°19 0°40 0°53 0°70	3 4 5 6	1.69 1.18 2.20 3.01	2:46 2:68 2:50 3:28	5:42 4:79 (3:96 5:69	47:77 44:70 45:24 40:34	48°96 43°26 83°77 40°35 49°33

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 8th of August 1890 -could.

			N. A.		R	AINPAL	L			To	TAI.				
porological hivision.	District.	Station.	Saturday, 2nd August.	Sunday, 3rd Angust,	Monday, 4th August,	Tuesday, 5th August,	Wednesday, 6th August,	Thursday, 7th August.	Friday, 8th Angust.	Number of rainy days.	Rainfall of week.	Total rainfall since list of month,	Average total rain- fall from 1st of month.	Total rainfall since 15th May. 1890.	Average rainfa from 15 May to date.
BENGAL		Gournaddi Bauphal	0.02			0.13	0.35	0°07 0°94	0°08 0°62	4 5	0°85 1°82	0°85 2°18	?	27'12 42'91	
10 (B)	Noakholly	Nonkholly Fenny	0.02	0.16	0.03	0.95 2.62	0.59	0.10 0.53	0.80	7 8	2°38 6°68	2:60 7:28	8°03 7°21	51°59 65°45	63°
	Furreedpore	Harishpore Ramganj Madaripore				1°10 0°60	0.19	0.40	0.40	3	1°19 0°94	1'19	8'87	45'85 24'44	337
	Furreempore	Furreedpore		===		0.80	0°19 0°43	0.81	0.50	3	1.03	1'35 1'35	3.41 3.12	24°65 25°55	30%
	Daces	Munshigunge Dacca Naraingunge	0.42 0.42		*****	===	2'70 2'85 8'58	0.45 0.20 0.63	0.12 1.32 0.34	3 4 4	3:30 4:62 5:22	3°47 4°99 5°32	4'56 3'67 3'77	40°28 46°35	40°3 34°4 36°4
	SHEET SHEET	Manickgunge Joydebpore Agartola	0°07 0°59			1.11	0.74	0.68	0.02	5	1.06 4.23	1°22 4°55	3.82 3.82	34'35 42'34 41'88	201
	Hill Tipperali Tipperah	Comilla Chandpore Brahmunberia	0.03	0.38	0.04	0.80 0.50 0.20	1.65	1'05 0'15 2'40 0'18	0°03 0°30 0°08	4 7 8 4	2:54 3:60 0:88	2.60 4.70 0.51	5.89 3.60	44'06' 39'10 35'65	40" 41" 34"
		Ramchandra- pore Nasirnagar	1.42	0.09	0.02	1.05	1-91 0-50	0'40	0.30	6 8	4.26 1.10	4'60 1'10	9 9	51°59 96°11	, p
TATEL TO		Daudkandi Kasba Lakeham	0.27		0.73	0.05	0.43	0.24	0.39	3 2 1	1°35 0°29 0°73	0.50 1.63	5	20°13 48°36 50°53	, b
	Mymensingh	Kishoregunge Atia (Tangail) Mymensingb			0.53		0.21 0.21 0.08	0°12 0°12 0°70	0.63	4 2 4	0.85 0.66 2.14	1'32 1'21 2'70	4'30 3'22 3'15	41°26 - 35'01 49'06	41°3 8 31°1 42°3
000000		Jamelpore Netrokona Subornakhally	0.40 0.68 2.40	0.85			2.20	0.14	0.16 1.18	3 5	0.08 6.23	2:98 6:67	3.70 4.19	47'48 63'42	35°4
COTIC.		Durgapore Sherepore Town Dewangans	2.10 0.69			==	0.35	0.81	5.60	3 2	1.20 1.20	5.70 2.08	P P	74.88	9 9
NORTH BENGAL.	Pubas	Pubna Serajgunge	0'12				0.09	0·12 0·24	0°52 0°58	4 3	0°85 1°05	1:30 1:55	2°41 2°48	24°91 32°46	27'1 28'8
DERGAL.	Bogra	Sherepore Nowkhills	0°25 0°82	0.03	1'03	0.19	0.02	0°07 0°27 0°10	0.37	4 2 7	0°74 1°09 2°06	1'41 2'04 3 28	3°17 3°32 2°46	36°19 35°12 34°94	33" 31" 35"
OF ON		Panchbibi Beauleah	0°18 2°12 0°15	0.32			0.03	0.13	0.10	5	3.23	5·93 2·10	8°39	45°28	32·1
1045 0.045 0.045	Rajsiative	Nattore Naogaon Lalpore	0.07			0.33	0:26	0.30 0.30 0.50	0°85 0°09 0°14	3 3	0.88 0.48 0.77	3°50 1°16 0°82	3'04 3'42 ?	49°81 36°93 25°39	28.7 31.1 9
	Maldah	Mando	0.60	0.33			0*35	1.13	0.03	5	2:30	8.96 5.00	2:69 8:70	28°64 30°36	27.7 31.9
		Chanchal Gajol Sibganj	2°93 0°66 0°41	0°39 0°47 0°19		10.40	0.04	0°20 0°41	*****	1	1.48	8·43 2·15	P	35.96	
	Dinagepore	Mohadebpore Churamon Raigunge	1.72 4.90	0°83 1°07				0'32 0'54 0'45	0°03 0°12	4 4	6.27 6.24	6°89 4°72 8°54	3°45 2°39 2 67	34'80 41'85 47'52	31°4 29°0 33°0
		Dinagepore Raloorghat Thakoorgaon	4°20 1°66 4°09	0.04 0.42 1.03	0°45			0°31 0°43	0:02	3 4 3	4.69 2.41 5.22	9.88 2.88	3.10 3.10	45°86 37°86 54'08	31:7
	Rungpore	Bhawanigunge (Gyabanda)	1.81	0.12	1.03			0.34	0'42	8 3	2°37 1°93	4*69 2*38	2·30 3·03	49°41 44°16	36°9
		Rungpore Kurigram Bagdogra (Nilphamari).	0°73 1°10 0°47	0.23	0.02		0.08			3 3	1.40	2.45	2.98 4.09	55'75 43'71	48°3
	Julpigoree	Ulipore Julpigoree	2.61	0.36	0.52			0:13		4	3°35 2°79	5'46 3'41 3'39	6.33	89°04 100°45	68.4
000		Alipore Dooar Fallacotta Debiganj	0.03 0.51 8.83	0.18	0.52		0.07	0.30	0.51 0.51	8	0.60 4.53	0'96 4'49	9	87:85 60:67	
	Cooch Behar.	Bhagatpore (Nagrakatta). Dinnatta	0°23 0'81 2'18	0.92 0.28 0.20	0°10 1°61		0.48	0°57 0°48 0°05	0.03 0.03	5 5	2:45 3:20 3:27	3°34 5'61 5'82	5'40 5'45 6'51	96'33 66'48 87'52 81'10	58°6
		Cooch Behar Mickilgunge Matabhanga Buxa	3:00 0:16 2:30	0.88	1.94			1°28 4°27 0°42	2.12	2 3 5 5	4°28 5°42 7°32 8°45	5:30 7:13 7:97	5°89 10°53 8°29	95°24 118°91 112°97	62'8 68'1 117'4 69'1
	Darjeelin Hill.	Silliguri Darjeeline Kalimpong	2:44 3:11 1:89	0°28 1'88 0°74	0°48 0°86 0°26	0.03		0.10 1.01 0.01	0°15 6°71 0°39 0°52	5 5	7:10 4:19 9:50	4.45 9.84 4.68 9.90	7°00 5'84 P	103°24 79°98 128°88	64.0
IR BEHAR	Purneab	Kurseong Kissengunge	3°40 1°80	2.60	2·70 6·29			2:00 2:07 1:27	0-29	4	6.76 5.21	7'24 5'21	3.96 3.04	55°12 46°02	89'8 35'1
		Arrareah Purneah Gondwara Balarampore	0:48 2:94 5:30	3°17 0°47 1°68	0.51		1'10	0.44		3	9:36 9:30	4·77 12·45	4.07 5 7	47'43 53'64	32.40 P
	North Bhagul-	Matiari Kaliaganj Maddapore	2.20 1.42	0.74	0°15 0°50		0.75	0°50 0°24 0°25	0.00	5 3	3°59 2°42	3*84 2*77	5°25 3'49	69:18 43:68 37:95	25.78 26.06
	pore.	Scopool Protabganj	0.18	0.84	0.12	******	0.19	0.18	0.50	5	1.73 2.13 4.38	1'85 9'44 4'42	2'76	30°05 35°85	23'51
	Durbhungs	Tajpore Durbnunga Madhubani Rahera Roshera	0.20 0.83 0.83 0.83	0°04 0°20 0°35	0°18 0°18 0 84 0°17 0°73	3:87 2:18 0:74 0:12	0.70	0°35 0°24 1°36 0°43		5 5 4 8	4.05 4.11 0.03 1.23	4'05 4'11 0'93 8'16	2.83 5 6 6 7	39°38 42°64 35°62 29°62	24'05 23'77 P
	Mozusterpore	Sitamarhi Mozufferpore	0°49 2°68	0:41 0:67	0°26 0°07	0°72 0°37		1:04 1:43 0:07	0°07 0°07	59 6 4	2:37 5:64 2:48	2°89 5°64 3°15	2.73 2.87 3.19	30°71 38°66 32°80 39°19	23°65 23°65 22°96
		Hajipore Paru Mahus	0°70 1°84	0°74 0°56 0°90	0.54	5.80 0.44		1.24 0.12	0.15	5 1	6'74 1'85 0'60	6°75 8°29 0′60	7	23.68 20.70	9

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 8th of August 1890-concld.

	PEND X	A.C.LET WITH	diam'	HE	R	AINPALI	1102	136	1808	Tor	AL.	1 820			
Meteorological Division.	District.	Station.	day, 2nd	sy, 3rd	day, 4th	dar, 5th	Wednesday, 6th August.	sday, 7th	y, 8th	ber of	fall of ik.	Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rainfall since 15th May 1890.	Average rainfall from 1st May to date.
			Saturday, Angust.	Sunday. August,	Monday, August.	Tuesdar, August.	Wed	Thursday, August,	Priday, Augus	Number rainy da	Rainfall week.	Laborate in			
NORTH BEHAR -concluded.	Chumparun	Motihari Bettiah Bagaha Burhurwa	0 95 2 08 0 16 1 64	0°11 1°10 0°55 0°01	0°86 0°84 1°12 0°87	0°06 0°41 0°12		0.54	0.28	8 4 6 4	2°22 3°58 2°29 2°64	2°22 3°58 2°82 2°67	3.522 3.09 5	44°50 40°77 49°47 89°04	227 25
Вости Винав	Sarun Shahabed	Gopalgunge Sewan Chuprah Buxar Dehree Bhabooah Sasseram Arrah Mohaniah	3.87 0.90 0.27 0.70 0.05 0.05 0.65 1.52	1'26 2'13 0'10 2'36 0'33 0'12 0'46 0'85	3°25 1°00 0°58 0°14 0°03 0°28 0°05 1°02 0°81	0°34 0°69 0°66 0°80	0'02 1'50 0'10 0'25 0'08	0°48 0°02 0°60	0.02 0.02 0.02 0.04 0.03 0.10	7 4 4 5 6 6 2	4°92 2°45 8°91 0°51 0°51 0°75 1°34 4°82 0°90	6'07 2'82 5'96 0'61 1'39 1'45 5'97	3°03 3°25 2°78 2°92 3°85 3°86 3°66 3°01 †	38:32 33:57 29:58 23:86 53:70 25:28 47:79 21:11	25: 92: 23: 19: 22: 20: 21:
	Gya	Aurungabad Gya Nowadah Jehanabad Arwal Daudnagar Sherrghati Rajauli PakriBarawan	0.08 0.16 0.23 0.00 3.20	0·13 0·64 1·31 0·20 2·20 0·45	0.04	0°07 0°06 0°10 2°95	1.25 0.02 0.21 0.20 0.10	0.45 0.18 0.26 2.60	0.41	4 4 5 4 4 1 2 5 1	1'87 0'87 1'01 1'61 5'70 0'19 2'30 14'81 2'60	1.87 1.67 1.38 2.34 6.20 1.10 3.30 5.21 3.00	3:55 3:19 3:20 3:64 1	25°95 34'40 87'13 86'00 17'10 19'97 31 d2 86'48	29: 23: 21: 22:
	Patus	Patna Dinapore Rehar Barrh Bickram Hilsa	2°18 0°60 1°58 1°24 0°84 0°90	0.98 0.40 0.18 0.50 1.07 0.19	0°90 0°02 0°05	0°35	0.60	0°30 0°90 1°56 0°20 0°23 1°30	0.05 0.50 0.05	5 5 4 5 5	3·79 3·40 3·40 2·44 4·73 2·49	8*79 3*47 8*52 2*86 5*22 2*97	3'05 3'13 2'99 2'84 ?	30°47 27°80 81°39 24°57 41°60 33°34	23° 23° 23° 23°
	Monghyr	Begooserai Monshyr Jamui Gogri Sheikpura	0°22 0°64 0°11 4°42 1°30	0°12 0°11 0°60 1°82 0°40		0.18		0°32 0°30		4 2 4 2 4	0°86 0°75 1°16 5°74 8°50	2:26 2:60 1:29 7:99 6:60	2.65 3.30 3.71 ?	27'86 88'35 42'43 51'34 33'43	21° 23° 24°
	South Bhagul- pore	Banks Kelgeng Bangaon	2°19 0°44 1°62 4°45	1.05 9.49 0.40			0.03 0.67	0.08 0.47 0.08	0.10	5 4 1	8:35 2:15 2:20 4:45	6'84 3'16 2'92 4'45	3:40 8:34 7	37'00 28'12 40'68 45'23	231 231
	Sonthal Pergunnahs.	Rajmehal Godda Pakour Nya Doomka Deoghur Jamtara Mohagama Naninat	0°38 0°58 0°68 4°28 0°05 0°09 0°35 1°56	0°37 0°25 0°32 0°09 10°09 10°09	0.68	0.11	0'41 0'30 2'51 0'76 9'82 0'46	0°11 0°10 0°76 0°89 0°34 0°27	0°15 0°12 0°93 0°14 0°28 0°15	5 4 5 6 5 4 2	1'42 1'23 5'39 6'56 1'44 1'18 1'67 1'72	4'90 2'78 6'57 8'26 2'44 1'40 3'82 2'63	2°36 2°90 2°34 4°61 4°05 3°20 ?	30°96 33°87 45°76 43°30 32°50 40°21 20°20	28 27 28 30 28 98 97
ORUTIA NAG-	Hazaribagh	Pachamba (Giridi). Hazaribagh Semtaguran Mahudi Hills		0°13		1.19	0°23 0°17	0.12	1.63 0.05	5	210	2:36	3°97 4°33 2°95 8°50 4°88	38'32 31'87 37'70	20 20 20 20 20 20 20 20 20 20 20 20 20 2
	ili tronicali Segon stalor	Jhoomra Hills Barhi Chatro Karaydeha Ramghar	1°20 0°45	0'40	×	0'10	0.70 0.02 1.40	0.03 0.40	0.40	4 2 3 4 2	1.80 1.80 0.83 0.32 5.30	2:90 3:55 0:87 1:77 2:50	COLUMN TO SERVICE	80°07 26°29 .86°41 24°56	
	Lohardugga	Lohardugga Ranchi Palamow Sille Balumat	0.16	0.14	==:	0.40	2.38 0.92 1.52	0°45 0°15 0°10	0.62 0.35 0.10	4 4 6 Nil	4.01 1.26 2.09 Nil	4°23 2°76 2°14 Nil	4*68 4*87 3*48 2	27.85 26.74 29.01 21.80	20 20 20 20 20 20 20 20 20 20 20 20 20 2
	er en a exal Se en en a exal	Hosseinabad Garwah	100			2'75	04	1.00		1	1:09	1.00	De local	18:00	
	Singbhoom	Chyebassa Chakradhar- pore.	0'12	0'18	2158	 		0.03	0.45	2	0.78	0:94	A-71	22'40	
	Markh	Ghateilla Baharagura	0.88	****			0.43	0.35	0.30	3	1.47	147	7	32.89	
	Manbhoom	Purulia Gobindpore Kaghunath- pore.	10.15	0.28	 	****	0.55	0°09 0°28 1°28	0.05 0.42 1.80	4 4 9	0'69 1'20 3'08	0°75 1°24 3°08	4.44 4.04	27°57 23°49 37°28	
		Barrabhoom Jhalda Chas			*****	*****	0.98	0.02	1.28 0.35	1 2 3	0°05 1°80 1°17	0.05 9.42 1.67	9	30°94 31°68 29°51	

Explanation. -... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the n are wanting, the corresponding spaces in the total rainfall columns are left blank.

Bougal, and Charle Norger a section where the contract of the

CALCUTTA, the 12th August 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 8TH OF AUGUST 1890.

THE features of interest in the meteorology of the past week are-

1. The high pressure which has prevailed throughout, giving an average excess of nearly a tenth of an inch in the east and north of the province, of a little over a twentieth in part of South-West Bengal and Chutia Nagpur, and about four-hundredths in Orissa.

2 The general low temperature, which, however, was more pronounced at the begin-

ning and end of the week, a rise taking place during the partial break of the rains which

spread over the province.

3. The scattered rainfall in Lower Bengal during the first few days and later in the northern districts.

4. A shallow depression, which, notwithstanding the prevailing high pressure, remained for some days, without causing any unsettled weather, in the neighbourhood of the Orissa

coast

At the commencement of the week pressure was rising, and rainfall had almost ceased in Orissa, Chutia Nagpur, and South-West and East Bengal with the exception of Nuddea, Dacca, and Mymensingh, but in North Bengal and Behar very heavy rain continued to fall. With the steadily rising pressure weeker on the week the received and the steady weeker on the continued without a break till the middle of the week, the monsoon current grew weaker in the northern districts, and rainfall rapidly diminished in amount, while wind velocity was generally below the average. The shallow depression in the north-east corner of the Bay first appeared on the 2nd to the south of Gopalpore, where a northerly wind was blowing, and apparently without deepening it kept that position till the 4th, the cyclonic circulation including the without deepening it kept that position the 4th, the cyclonic circulation including the winds in its vicinity only. Pressure remained over 29 6 inches, but on the 6th a slow fall was general in the west of the Bay, when pressure, still lowest at Gopalpore was slightly under that amount. On the 7th the depression had passed away, but a small whirl still appeared in the north-west corner. This moved over the north of Orissa, rain becoming general in the southern districts, but it was still very scattered in Behar and North Bengal. Though there was a partial break in the rains, temperature remained low except about the 5th, when a slight excess obtained except in Behar. After rainfall again set in towards the end of the week, temparature again fell, and on Friday was below the normal by small amounts in all districts.

Pressure - Rose steadily during the early half of the week, but on the 5th a brisk fall occurred in Assam, East Bengal and North Bengal, and a slow to moderate fall elsewhere, after which slow downward changes continued in the western districts and a slow rise elsewhere till the 8th, when a brisk rise in the north-west corner of the Bay gave a more normal distribution there; the small depression which had existed for some days completely disappearing. The largest excess was on the 4th, when it varied from 'I inch to '15 inch over nearly the whole of Bengal, but was less than 'I inch in Chutia Nagpur, Orissa, and

Assam.

Temperature—Though not so low as in previous weeks, has on an average been largely below the normal in Behar, slightly below in Chutia Nagpur, North Bengal, and Assam, and almost normal in East Bengal, South-West Bengal, and Orissa. During the break in the rains in the early part of the week, there was an upward tendency in Lower Bengal, resulting in a small excess there, but as heavy general rain continued to fall in Behar, there was still defect of more than 5°. Mean defect for the week in North Behar is 2·1°, in South Behar 1·8°, in North Bengal and Assam 6°, Chutia Nagpur 4°, and in the other districts temperature has

been practically normal.

Rainfall—As stated above, had become very light and scattered in Lower Bengal at the beginning of the week, but heavy falls were still being received in Behar. The break, however, gradually spread over the province, and by the middle of the week general light rain was falling in the lower districts, and scattered showers in North Bengal and Behar. Scattered rain continued to fall in Orissa, South-West Bengal, Chutia Nagpur, and East Bengal, from the 2nd to the 5th, after which general light rain fell till the end of the week. In the northern districts general rain fell from the 2nd to the 4th, and then the both the seak commencing, scattered showers were received till the 8th with the exception of the 7th, when fairly general rain fell. The mean amounts for the week are all below the normal except in North Behar, where there is excess of 1.3 inches Defect is about 1.3 inches in Orissa, East Bengal, and Chutia Nagpur, '9 inch in South-West Bengal, '7 inch in North Bengal, and about half an inch in South Behar.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 8th of August 1890:—

			TRMP	ERATU	RR.					1	CAINT.	ALL.		100717	4.95	-457
	week.	week,	Avera	ges for	week.	above or week.		Of wee	k.	R	ainy d	кув.		e 1st nth.		e 15th 1890.
MRTBOROLOGICAL DIVISIONS.	Highest observed during	Lowest observed during	Of bighest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week i	Averske.	Normal average.	Variation,	Average number in week.	Normal average num- ber in week,	Variation,	Average.	Normal average.	Average.	Normal average.
Orissa	91'9	75'7	88'0	78'7	83'4	0	1.20	2'84	-1'84	8.8	4'8	-10	1.00	3'35	28.07	26'46
South-West Bengal	92.6	75.7	88:8	78'3	83.2	-0.1	2.09	2.96	-0.87	6.0	4:6	-0.6	2.81	3.62	32 85	28.47
East Bengal	90°8	72.2	86'8	77.0	81.9	-0.5	2.80	4.10	-1*30	4'5	5.6	-11	3.50	4'77	46 46	33-91
North Bengal	92 8	741	86.8	781	82'5	-0.7	2.21	3.51	-0.40	3.6	47	-11	3 77	3.62	48'96	40'65
North Behar	81.8	72.5	86.8	77'4	82.1	-2.1	4.00	2170	+1.30	4.2	4:0	+0.2	4:31	3 16	40.09	26.08
South Benar	90.9	73'8	86'4	77'5	82'0	-1.8	2:30	2:74	0'44	4'6	4.1	+0.2	3.19	3.27	33'41	23.65
Chutia Nagpur	86.2	69.9*	83.0.	72'1"	77'6"	-0.4	2.00	3:33	-1.33	4'3	5.8	-1.0	2:20	418	28.88	26.94
Assam	94'6	74'8	86'4	77'4	81'9	-0.6					No.	Per Co	HIST	600		7.5

MRTEGROLOGICAL OFFICE, BENGAL;

* Chyebassa not included.

C. LITTLE,

The 12th August 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of July 1890.

	100000000000000000000000000000000000000			
	1	nches.	Date.	Hour.
The mean pressure of the month	2	9.532		
The average pressure of July from 24 years' registers	BOOK STATE OF 1225	9.537		
mi 1:1	STATE OF THE PARTY	9.761		10
mi 1		9.347		10
		0.414	PRO-EUTO-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	16
The range of pressure		01,010		
The total number of hours of bright sunshine during the mon	th	72.5		
The maximum possible number of hours of sunshine		413.1		
The maximum possible number of nours of sunshine	4.5		anni de la	
				No.
The mean temperature of the month	***	82.8		
The average temperature of July from 24 years' registe	ers	83.5		
The highest temperature in the month	***	90.1		
The lowest temperature in the month	***	75.2	28th.	al 21 Martin
The range of temperature during the month	***	14.9	N STATE	
The mean daily range of temperature		9.4		
The greatest range of temperature in one day		12.3	3rd.	
	Pe	er cent.		
The mean humidity of the month		86		
The average humidity of July from 24 years' registers	1 30 22	85		
the average numberly of oury from 22 years registers	The St	00		
		Inches		
The mean vapour pressure of the month		0.963		
The average vapour pressure of July from 9 years' registers		1.002		
The mean cloud proportion of the month		7.91	WHEN E	Mary Street
The average cloud proportion of July from 13 years' regist		3.02		
The total rainfall of the month		0.29		
The total rainfall indicated by a Beckley's self-registering rai				
gauge (mouth of the gauge about 52 feet above the ground		0.05		
LEM (C. P.) 내용 (B. C. C. P.) 내용 (B. C.	E-C14711111-1116-11-12	84		
The greatest fall in 24 hours	1	.86	5th.	
m 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		lays.		
The number of rainy days in the month		24		details of
The average number of rainy days in July from 24 year				
HT 이번 경기 교육하는데 교육 (대한국 시간에 보기하는 HT) : PRESENT 및 NEW YORK (1997) 등에 대한국 등에 가능한 대한국 등에 가능하는데 가능하는데 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계 기계	Cata July 4	25		Militari es
The mean maximum equilibrium temperature of solar radiation	on	0	SEL FIELD FOR	
during the month	1	45.3		
nt J: Manage of any and air townsometries		58.3		
N	1	56.9	19th.	STATE OF THE PARTY
Iltest awares of one over air temporature	TO SEE STATE OF THE SECOND SEC	69.0	31st.	
The mean temperature of the nocturnal radiation thermometer				
on woollen cloth	S. Mark Co.	76.6		2 100 10
The mean depression of the nocturnal radiation thermometer	er			
below the minimum air temperature at 4 feet above th				
		1.3		
he greatest depression of the nocturnal radiation thermometer				
below the minimum six temperature		3.2	1st.	
Octon vito initiatata aix totaperatato	1214	02	IBL.	
		files.		I CONTRACTOR OF THE PARTY OF TH
	M2530EYX19901G3	00.3		
		82.0	2nd.	
The greatest movement of the wind in one hour		22.0	1st 11	to noon.
The number of hours with winds from each of the 8 points-			THE RESERVE OF THE PARTY OF THE	THE RESERVE OF THE PARTY AND T

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore 003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.6 higher; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, INDIA; Calcutta, the 11th August 1890.

For Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from 3rd to 9th August 1890.

			jo s	meter		TEMPE	RATURE			HYGRON	ETRY.		WIND.			
Month.	Date.	Maximum in sun.	Number of hours bright sunshine.	Mean pressure barometer at 32° Fahr.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb,	Vapour pressure.	Dew point,	Humidity.	Prevailing direction.	Miles recorded.	Rain,	Wrathen.
1890.		0		Inches.	0	0	0	0	0	Inches	0	%	deling even		Inches.	46. 10.
Aug.	3rd	151-2	8.4	29-647	83.5	89-6	12.4	77:2	78.6	0.913	76.5	79	ESE and calm	54	NII	Partially cloudy
"	4th	155.7	9.4	*643	84.2	89.8	12 0	77-8	79.5	946	77.5	80	E, calmand variable	39	0.03	Partially cloudy d.
"	5th	153-3	5-8	-610	80.8	89.7	14.5	75.2	78-2	932	77.1	89	E, calm and variable	41	1.74	Chiefly cloudy d, t, p, o, g.
"	6th	147.5	1.5	-£88	817	86.4	10.2	76.2	78-9	958	77.8	88	ENE, ESE and calm	58	0.07	Chiefly cloudy o, g, c.
"	7th	140 5	1.6	-593	81 6	85-8	9-9	75-9	79-0	-960	78-0	89	ESE and SE	112	1.13	Chiefly cloudy
	8th	148-3	27	-611	82.3	86-4	10:3	76-1	79 4	-966	78-2	87	SSE	57	0-11	Chiefly cloudy
,,	9th	168 2	4.5	-578	81-6	88.0	9.8	78 2	78 6	-939	77.8	87	E, calm and variable	53	Nil	Partially cloudy

				Inches.
The mean pressure of the seven days		THE TOP	5	29.610
The average pressure of the corresponding peri		. SG.'s		29.586
an around a framework and a fr	21日前草(10年)		Cation is departed	Hours.
The total number of hours of bright sunshine		of tally the	ries.	33.4
	-1.t ""		AND THE RESERVE	91.2
he maximum possible number of hours of sur	ishine			0
he mean temperature of the seven days	The second of the second	I culting	Market Tark	82.2
he average temperature of the corresponding	paried for 24 P	D-8 2700	SIGNER OF STREET, STATE OF STREET	83.1
the average temperature of the corresponding	559 6F (MESSEESESSESSESSESSESSESSESSESSESSESSESS		191-05229H3ACRUSKULEZYF 1GF25ACRU	14.6
he extreme variation of temperature		HINE ST	Day of the same	
he maximum temperature		•••		89.8
	AND WAS TENNED			Miles.
he highest velocity of the wind in one hour	The state of the s			13
				lbs.
he highest pressure of wind on one square for	ot	TO DESTRU	Approximately	
no migross bressure or wind on one adults to			PP	3 % 86
he mean relative humidity	(1) (TANK)			88
	. "	04	0 01.	00
he average relative humidity of the correspon	ding period for	24 year	8, 04.8	0.0
Office	STATE OF LAND OF STREET			86
				Inches.
The total fall of rain from 3rd to 9th August	1890			3 08
he average fall of the corresponding period for		's Office		2.69
he total fall from 1st January to 9th August	1800	2 01110		34.25
		1 2- 00-		
The average fall of the corresponding period for	r 24 years, BC	. s Ome	θ	38.44

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard November's No. 86 formula.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly

at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; p, passing temporary showers; lr. lightning reflection.

J. H. GILLILAND,

For Meteorological Reporter to the Gost. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Ogloutta, the 11th August 1890.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of July 1890.

是14年,17年1日,16年1日,	RA CONTRACTOR		Inches.	Date.
The mean pressure at 10 A.M. during the month			29.581	
The mean temperature at 10 A.M. during the month			84.3	4 2 2 2 2 2 2
mi . 1: 1 t to separature during the month			91.6	3rd.
mi - 1 tommounting during the month	27		75.8	28th.
The absolute range of temperature during the month	3.1 %		15.8	
The mean daily range of temperature during the month			10.2	
The greatest range of temperature in one day during the	e month		12.8	3rd.
The mean 10 A.M. humidity during the month			84 Inches.	
The mean 10 A.M. vapour pressure during the month			992	Sol Rail Walls
ml - total - infall of the month			10.33	
The greatest fall in 24 hours		***	4.17	10th.
The number of rainy days in the month			Days. 19	

J. H. GILLIAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA; The 4th August 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 3rd to 9th August 1890.

Month.		A.M.			Темр	KRATURE.			1	IYGROMETE	Y.	hours.
Month.	Date.	Pressure at 10 A.M. corrected and reduced to 82 Fahr.	Daily mean,	Maximum.	Range,	Minimum,	Dry bulb at 10 A.M.	Wet bulb at 10	Vapour pressure at 10 a.m.	Dew point at 10 A.M.	Humidity at 10	Rainfall past 24 ho
Bigg		Inches.			0.	0	0	0	Inches.	0	%	Inches
August	3rd 4th 5th 6th 7th 8th 9th	29·704 692 ·644 ·637 ·651 ·671 ·639	84·7 85·4 85·4 82·0 82·0 82·4 84·4	91.5 92.0 91.8 87.3 87.0 88.0 90.0	13·7 13·2 12·8 10·5 9·9 11·2 11·2	77·8 78·8 79·0 76·8 77·1 76·8 78·8	87·4 87·6 86·6 83·1 83·4 82·1 86·1	80·5 81·3 81·5 79·5 80·0 79·5 81·5	949 984 1 008 961 979 975 1 015	77-6 78-7 79-5 78-0 78-6 78-4 79-7	78 75 80 85 85 85 89 82	0·15 2·30 0·44 0·39

The mean 10 a.m. pressure of the seven days	•••		Inches, 29.663
The mean temperature of the seven days The extreme variation of temperature The maximum temperature	A net ca de punibu A net	ied janti A Gargid ed generali ed	83·8 15·2 92·0
The mean 10 A.M. relative humidity of the sec	and will		% 81 Inches. 3.28

The daily mean temperatures are the crude means of maximum and minimum temperatures. J. H. GILLILAND,

For Meteorological Reporter to the Gort. of India.

The state of the s

METEOROLOGICAL OFFICE, INDIA; The 11th August 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 26th July 1890.

BIRTHS

The births registered during the week ending with Saturday, the 26th July 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 18·2 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 2·7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1887—vide the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	26.0	20'7	15.9	19.8	21.5	20.9	18'2

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

	WEEKS	ENDING-			VEEKS E	NDING-	
Towns.	5th July 1890.	19th July 1890. 26th July 1890.	Towns.	5th July 1890.	12th July 1890.	19th July 1890.	26th July 1890.
Burdwan	16'8 13'7 17'0 23'2 26'3 18'1 25'5 13'7 37'7 21'2 10'5 28'1 1'9 17'0 18'0 18'0 18'0 18'0 18'3 16'5 6'1 6'1 34'2 18'4 14'8 37'0 11'0 9'7	3.5 14.0 15.1 11.4 12.0 12.0 19.3 10.5 18.4 6.1 23.6 18.4	Narainganj Chittacong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Mongbyr Purneah Poori Total	41 423 347 101 143 144 134 154 157 70 299 145 173 281	20.7 28.2 3.8 11.4 29.4 23.9 18.2 22.8 12.1 19.9 38.9 3.5 14.7	16'6 4'77 7'77 11'4 26'0 17'9 15'8 18'9 20'1 25'3 53'4 6'9 10'5	29°6 14°1 15°4 12°1 33°1 13°4 11°1 18°1 18°1 18°1 18°1

It will be seen that last week the highest birth-rate was returned from Monghyr (41.6), and the lowest from Jessore (6.1).

The deaths registered during the week under review correspond to an annual rate of 23·1 per 1,000 of the population. The rate of the week is 6·1 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years except 1888—vide the figures below:—

	1885,	1886.	1887.	1888.	1889.	Weekly average of five years 1885—89.	1890.
Ratio of deaths per 1,000 of the population per annum	38'£	28:0	28'6	19*2	26.8	20*2	23'1

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

			WEEKS	ENDING-	-			WEERS I	NDING-	
Towns,		sth July 1890.	19th July 1890. 26th July 1800.		July July 16	12th July 1890.	19th July 1890,	26th July 1890.		
Burdwan Midnapore Hughli and Chinsurah Serampore Utterpara Howrah Rali Kishnagar Ranaghat Santipore Jussore Rampore Beauleah Darjiling Dacca		16'8 21'7 23'0 20'4 6'4 8'6 24'6 13'2 6'9 14'0 18'4 15'8 51'9 21'4	22'9 23'2' 21'3 29'4 18'9 11'5 3'5 3'8 18'0 8'8 30'6 10'5 22'2' 15'6	19*8 35*6 19*7 45*1 56*6 16*0 7*0 5*8 24*0 17*5 42*8 5*2 37*0 23*4	27.5 17.0 24.6 89.3 47.2 13.7 21.1 11.4 12.0 15.8 12.2 23.6 22.3 15.6	Narainganj Chittagong Comillah Patna City Gya Arrah Mozufferpore Durbhanga Chupra Bhagulpore Monghyr Purnean Poori	8°3 87°6 46°2 15°3 26°0 81°1 31°6 17°3 8°0 15°4 9°0 10°4 86°0	24'8 39-9 26'9 14'9 32'1 35'9 31'6 23'6 21'1 15'4 25'3 13'9 65'0	16°6 18°8 26°9 14°6 32°1 23°9 29°2 82°3 16°1 10°0 26°2 10°4 44°1	16: 18: 38: 18: 37: 39: 32: 25: 18: 22: 25: 10: 35:

It will be seen that last week the highest mortality occurred in the town of Utterpara (47.2), and the lowest in Purneah (10.4).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cho	lera.		Fever.	Bowel-con	nplaints.	Other caus	ses.
	Ratio per mille.		Ratio pe		Ratio per mille.	19/10 - 3 10/13	Ratio per mille.
Arrah Chupra Midnapore Serampore Mozofferpore Durbhanga Patna City Gya	14·3 11·1 9·3 7·8 6·0 5·5 8·9 2·7	Comillah Rampore leah	34·7 Beau- 21·0	Utterpara Poori	37·7 21·0	Gya Mozufferpore Serampore Hughli and C surah Monghyr Burdwan	118

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3.3 from cholera, against 2.5 per 1,000 in the preceding week; 1 from small-pox, against 4; 10.2 from fever, against 8.6; 2.4 from bowel-complaints, against 3.1; 9 from injury, against 8; and 6.2 from other causes, against 6.6 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.		According to	Class.	According to A	ge.
N	Ratio per		Ratio per	\cdot	Ratio per mille,
Males Females Ratio of male deaths to every 100 female deaths,	24·0 22·2	Christians Hindus Mahomedans	14·9 23·3 23·1	Under 1 year 1 and under 5 years 5 ,, 10 ., 10 ,, 15 .,	211.0 28.5 15.5 15.7
calculated on the pro- portion such mortality bears to the total male and female population	108			15 " 20 " 20 " 30 " 30 " 40 " 40 " 50 " 50 " 60 " 60 years and upwards	11·3 14·5 17·4 28·5 54·6

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 11th August 1890.

Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 9th August 1890, as compared with the corresponding week of the previous year.

	NATURE OF CARGO.			DING SATUR AUGUST 1890		WEEK ENDING SATURDAY, THE 10TH AUGUST 1889.			
NATURE			Number of boats.	Weight of cargo.	Tollage.	Number of boats,	Weight of cargo.	Tollage.	
			No.	Mds.	Rs.	No.	Mds.	Rs.	
Rice and paddy Jute Firewood Other articles			386 46 165 722	88,500 11,800 95,650 2,05.995	1,339 249 1,398 2,652	261 85 159 715	52,570 15,975 83,475 1,70,025	819 289 1,226 2,400	
	Total	-	1,319	4, 1,945	5,638	1,170	3,22,045	4,734	

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 1,5253 miles open.

	COACHIN	COACHING TRAFFIC. MRI		AND MINERAL	Other earnings		TRAFFIC TRAIN-MILES RUN.			
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total.	
		Rs. A. P.	Mps. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.				
Total traffic for the week Or per mile of railway	282,719	2,23,492 6 0 146 8 1	14,73,505 20	3,22,132 5 0 211 2 8	19,104 13 6 12 8 4	5,64,729 8 6 370 3 1	64,569	72,780	137,349	
For previous 4 weeks of half-	889,367	8,69,756 13 0	71,29,710 20	15,62,769 5 0	69,352 2 0	25,01,878 4 0	243,282	295,885}	539,167	
Total for 5 weeks	1,122,086	10,93,249 3 0	86,03,216 0	18,84,901 10 0	88,456 15 6	30,66,607 12 6	307,851	368,6651	678,518	
COMPABISON.										
Total for corresponding week of previous year	221,442	2,22,123 13 8	19,50,147 80	4,81,759 1 0	16,856 14 3	6,70,739 12 11	65,058	77,864	142,922	
Per mile of railway correspond- ing week of previous year		145 9 9		283 0 b	11 0 10	439 11 0				
Total to corresponding date of previous year	1,234,298	11,96,505 2 7	1,11,15,388 20	23,64,027 6 0	88,654 0 6	36,47,186 9 1	323,157	439,281	762,438	

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

	TS POR WEEK D AUGUST 188			S POR WEEK O AUGUST 189			TOTAL RECEIPTS FROM 1ST APRIL 1859 TO 3RD AUGUST 1859. TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2RD AUGUST 1890.				Total	Total	
Mean puleage work d.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Mean mileage worked.	Total receipts.		Mesn mileage worked.	Total receipts.	Per mile worked per week.	increase in 1890.	decrease in 1890.
1,5759	Rs. 6,70,740	Rs. 440	1,525}	Rs. 5,64,730	Rs. 370	1,5251	Rs. 1,56,78,937	Rs.	1,525}	Rs. 1,42,05,659	Rs. 517	Rs.	Rs. 14,66,278